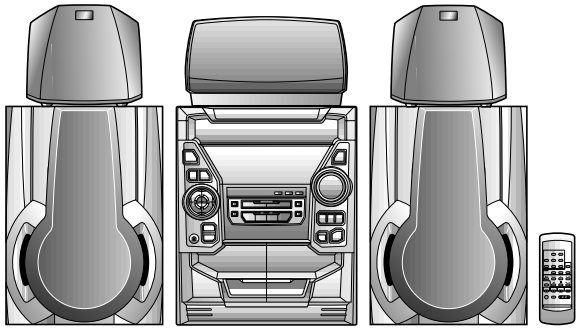
SHARP SERVICE MANUAL

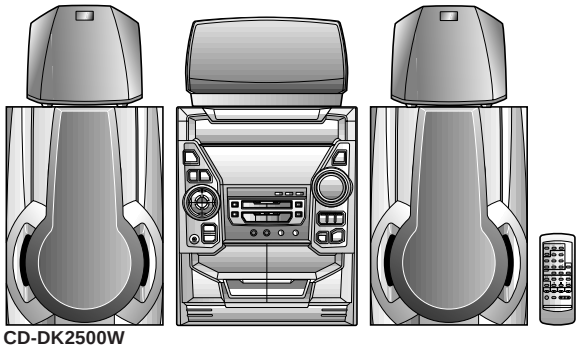
No. S4034CDDP2500



CD-DP2500W

CD-DP2500W

CD-DP2500W Mini Component System consisting of CD-DP2500W (main unit), CP-DP2500 (front speakers), GBOXS0038AWM1 (centre speaker) and GBOXS0039AWM1 (surround speakers).



CD-DK2500W

CD-DK2500W

CD-DK2500W Mini Component System consisting of CD-DK2500W (main unit), CP-DP2500 (front speakers), GBOXS0038AWM1 (centre speaker) and GBOXS0039AWM1 (surround speakers).

COMPACT disc DIGITAL AUDIO

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.8W

DOLBY SURROUND PRO • LOGIC

Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

DIFFERENCE BETWEEN CD-DP2500W AND CD-DK2500W

SECTION	CD-DP2500W	CD-DK2500W
KARAOKE	Non	Used

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

CONTENTS

Page

SAFETY PRECAUTION FOR SERVICE MANUAL 2
VOLTAGE SELECTION 2
SPECIFICATIONS 3
NAMES OF PARTS 4
OPERATION MANUAL 8
DISASSEMBLY 9
REMOVING AND REINSTALLING THE MAIN PARTS 12
TEST MODE 13
ADJUSTMENT 14
NOTES ON SCHEMATIC DIAGRAM 16
BLOCK DIAGRAM 17
SCHEMATIC DIAGRAM / WIRING SIDE OF P.W.BOARD 20
VOLTAGE 42
WAVEFORMS OF CD CIRCUIT 43
TROUBLESHOOTING (CD SECTION) 44
FUNCTION TABLE OF IC 48
FL DISPLAY 54
REPLACEMENT PARTS LIST/EXPLODED VIEW

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class I Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam

(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
(4) Under no circumstances look directly into the Pickup Lens at any time.
(5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

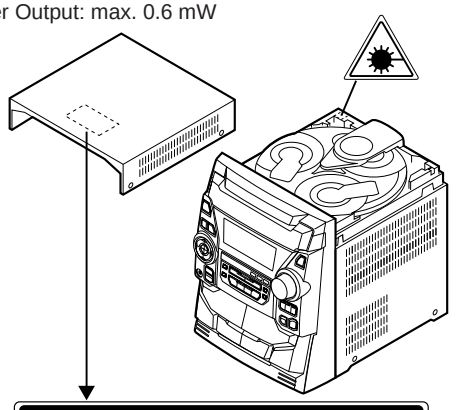
CAUTION

CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

- This Mini Component System is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

  As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW



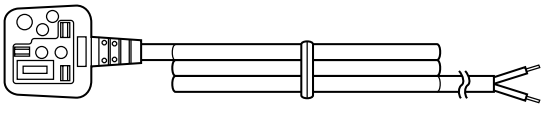
CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

Illustration:CD-DP2500W

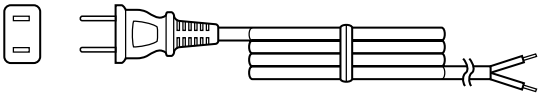
VOLTAGE SELECTION

The voltage selector is located on the AC voltage selector box. If adjustment is necessary, ensure to remove plug of AC cord from AC socket and use a screwdriver in order to turn the selector in either direction. The correct voltage figure is displayed in the window below to the adjustment screw.

QACCB0006AW00

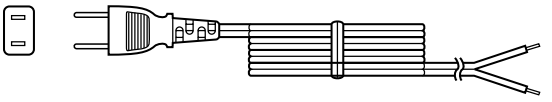


QACCA0003AW00

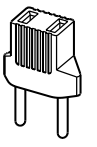


QACCE0010AW00

QACCJ0007AW00



QPLGA0003AWZZ



QPLGA0004AWZZ

Figure 2 POWER SUPPLY CORD

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

● General

Power source: AC 110/127/220/230-240 V, 50/60 Hz
Power consumption: 155 W
Dimensions: Width; 270 mm (10-5/8")
Height; 330 mm (13")
Depth; 332 mm (13-1/16")
Weight: 8.9 kg (19.6 lbs.)

● Amplifier section

Output power: **Front speakers;**
MPO; 200 W (100W + 100 W)
(10 % T.H.D.)
RMS; 120 W (60 W + 60 W)
(10 % T.H.D.)
RMS; 96 W (48 W + 48 W)
(0.9 % T.H.D.)
Centre speaker;
MPO; 50 W (10 % T.H.D.)
RMS; 30 W (10 % T.H.D.)
RMS; 24 W (0.9 % T.H.D.)
Surround speakers;
MPO; 50 W (25 W + 25 W)
(10 % T.H.D.)
RMS; 30 W (15 W + 15 W)
(10 % T.H.D.)
RMS; 24 W (12 W + 12 W)
(0.9 % T.H.D.)
Output terminals: Front speakers; 6 ohms
Centre speaker; 6 ohms
Surround speakers; 12 ohms
Headphones; 16-50 ohms
(recommended; 32 ohms)
CD digital output (optical)
Input terminals: (CD-DP2500W) Video/Auxiliary (audio signal) × 2; 500 mV/47 kohms

Input terminals: (CD-DK2500W) Video/Auxiliary (audio signal) × 2; 500 mV/47 kohms
Microphone 1/2; 1 mv/600 kohms

● Compact disc player section

Type: 3-disc multi-play compact disc player
Signal readout: Non-contact, 3-beam semiconductor laser pickup
D/A converter: 1-bit D/A converter
Frequency response: 20 - 20,000 Hz
Dynamic range: 90 dB (1 kHz)

● Tuner section

Frequency range: FM; 88-108 MHz
AM; 531-1,602 kHz

● Cassette deck section

Frequency response: 50-14,000 Hz (Normal tape)
Signal/noise ratio: 55 dB (TAPE 1, playback)
50 dB (TAPE 2, recording/playback)
Wow and flutter: 0.3 % (WRMS)

● Front speaker section

Type: 3-way type [13 cm (5-1/4") woofer, 5 cm (2") tweeter and super tweeter]
Maximum input power: 120 W
Rated input power: 60 W
Impedance: 6 ohms
Dimensions: Width; 240 mm (9-1/2")
Height; 330 mm (13")
Depth; 255 mm (10-1/16")
Weight: 3.9 kg (8.5 lbs.)/each

● Centre speaker section

Type: 10 cm (4") full-range speaker
Maximum input power: 60 W
Rated input power: 30 W
Impedance: 6 ohms
Dimensions: Width; 260 mm (10-1/4")
Height; 140 mm (5-1/2")
Depth; 155 mm (6-1/8")
Weight: 0.9 kg (2.0 lbs.)

● Surround speaker section

Type: 10 cm (4") full-range speaker
Maximum input power: 30 W
Rated input power: 15 W
Impedance: 12 ohms
Dimensions: Width; 200 mm (7-7/8")
Height; 93 mm (3-11/16")
Depth; 170 mm (6-3/4")
Weight: 0.5 kg (1.1 lbs.)/each

Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

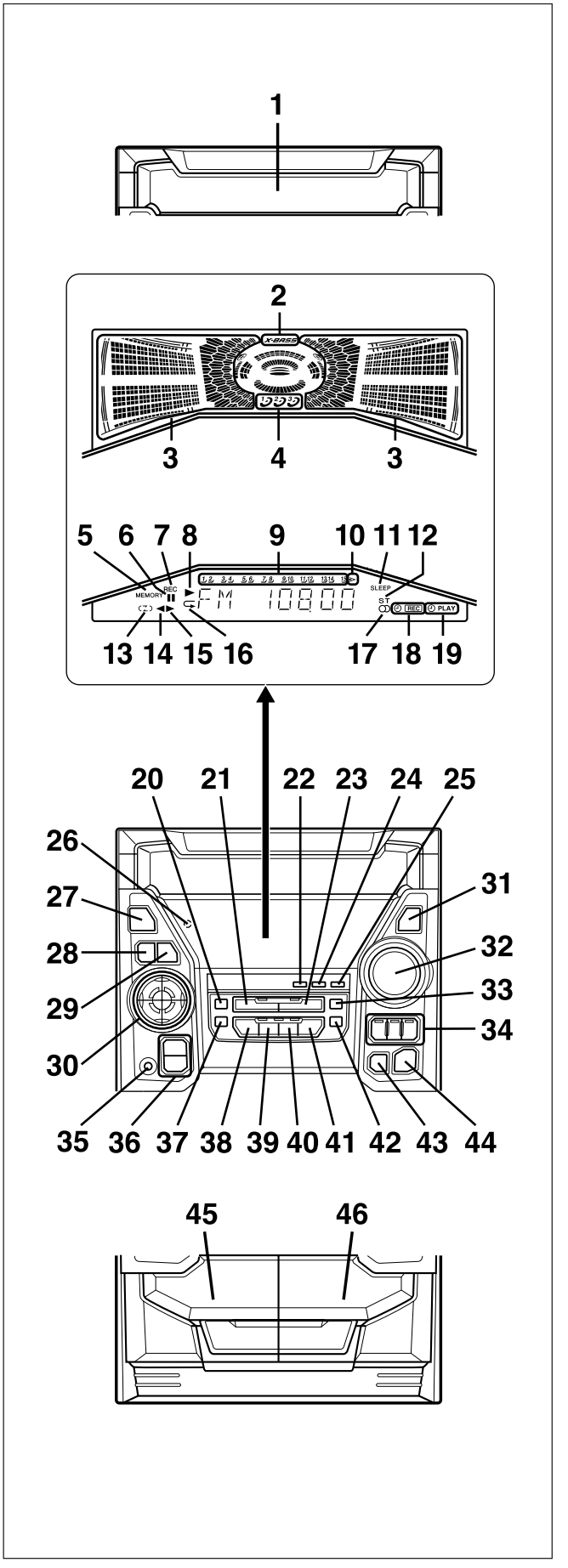
■ Front panel [CD-DP2500W]

1. (CD) Disc Tray

2. Extra Bass Indicator
3. Spectrum Analyzer/Volume Level Indicator
4. (CD) Disc Number Indicators
5. (CD/TUNER) Memory Indicator
6. (CD) Pause Indicator
7. (TAPE 2) Record Indicator
8. (CD) Play Indicator
9. (CD) Music Schedule Indicators
0. (CD) More Tracks Indicator
11. Sleep Indicator
12. FM Stereo Mode Indicator
13. (TAPE) Reverse Mode Indicator
14. (TAPE 2) Reverse Play Indicator
15. (TAPE 1) Play Indicator
    (TAPE 2) Forward Play Indicator
16. (CD) Repeat Indicator
17. FM Stereo Indicator
18. Timer Record Indicator
19. Timer Play Indicator

20. Memory/Set Button
21. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Fast Wind Button
22. Bypass Button
23. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Wind Button
24. Normal Button
25. Phantom Button
26. Timer Set Indicator
27. On/Stand-by Button
28. Clock Button
29. Timer/Sleep Button
30. Function Selector Buttons
31. Dimmer Button
32. Volume Control
33. Equalizer Mode Selector Button
34. (CD) Disc Number Select Buttons
35. Headphone Socket
36. Tuning and Time Up/Down Buttons
37. (TAPE 2) Record Pause Button
38. (TAPE 2) Reverse Play Button
39. (CD/TAPE) Stop Button
40. (TAPE 2) Reverse Mode Button
41. (CD) Play/Repeat Button
    (TAPE 1) Play Button
    (TAPE 2) Forward Play Button
42. Extra Bass/Demo Mode Button
43. (CD) Disc Skip Button
44. (CD) Open/Close Button

45. (TAPE 1) Cassette Compartment
46. (TAPE 2) Cassette Compartment



■ Front panel [CD-DK2500W]

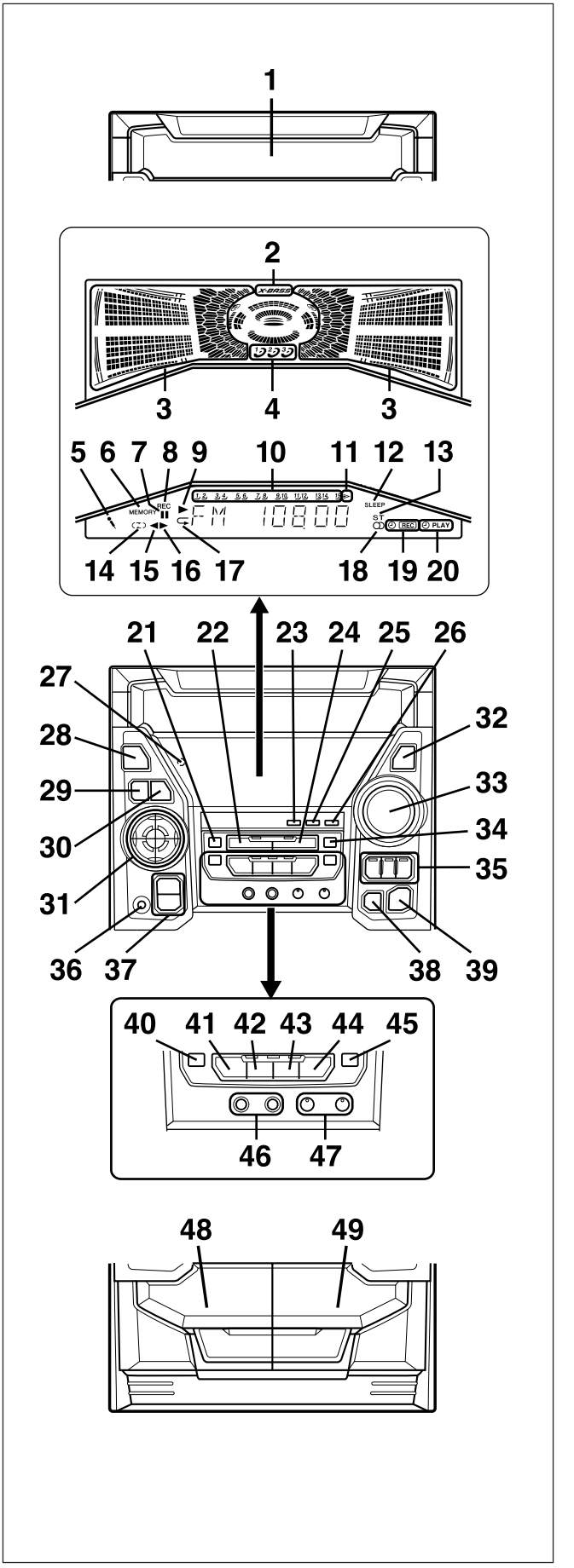
1. (CD) Disc Tray

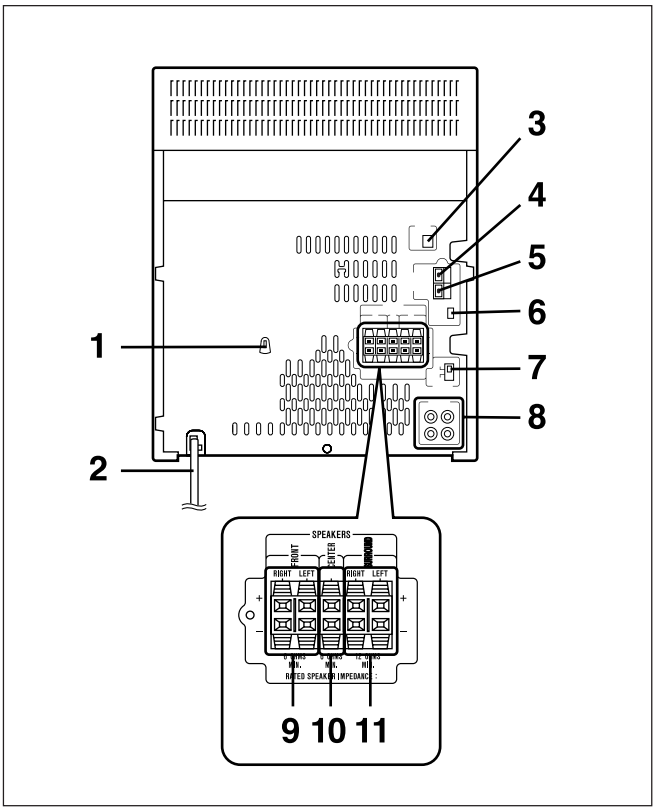
2. Extra Bass Indicator
3. Spectrum Analyzer/Volume Level Indicator
4. (CD) Disc Number Indicators
5. Karaoke Maker Indicator
6. (CD/TUNER) Memory Indicator
7. (CD) Pause Indicator
8. (TAPE 2) Record Indicator
9. (CD) Play Indicator
   (CD) Music Schedule Indicators
   (CD) More Tracks Indicator
12. Sleep Indicator
13. FM Stereo Mode Indicator
14. (TAPE) Reverse Mode Indicator
15. (TAPE 2) Reverse Play Indicator
16. (TAPE 1) Play Indicator
    (TAPE 2) Forward Play Indicator
17. (CD) Repeat Indicator
18. FM Stereo Indicator
19. Timer Record Indicator
20. Timer Play Indicator

21. Memory/Set Button
22. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Fast Wind Button
23. Bypass Button
24. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Wind Button
25. Normal Button
26. Phantom Button
27. Timer Set Indicator
28. On/Stand-by Button
29. Clock Button
30. Timer/Sleep Button
31. Function Selector Buttons
32. Dimmer Button
33. Volume Control
34. Equalizer Mode Selector Button
35. (CD) Disc Number Select Buttons
36. Headphone Socket
37. Tuning and Time Up/Down Buttons
38. (CD) Disc Skip Button
39. (CD) Open/Close Button

40. (TAPE 2) Record Pause Button
41. (TAPE 2) Reverse Play Button
42. (CD/TAPE) Stop Button
43. (TAPE 2) Reverse Mode Button
44. (CD) Play/Repeat Button
    (TAPE 1) Play Button
    (TAPE 2) Forward Play Button
45. Extra Bass/Demo Mode Button
46. Microphone Sockets
47. Microphone Level Controls

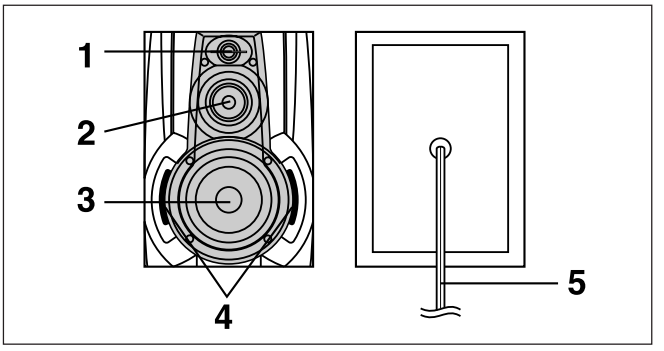
48. (TAPE 1) Cassette Compartment
49. (TAPE 2) Cassette Compartment





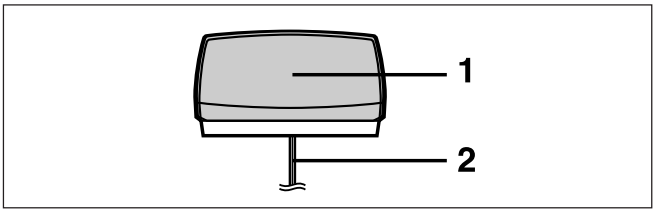
■ **Rear panel**

1. AC Voltage Selector
2. AC Power Lead
3. CD Digital Output Socket
4. FM 75 Ohms Aerial Terminal
5. FM Aerial Earth Terminal
6. AM Loop Aerial Input Socket
7. Span Selector Switch
8. Video/Auxiliary (Audio Signal) Input Sockets
9. Front Speaker Terminals
10. Centre Speaker Terminals
11. Surround Speaker Terminals



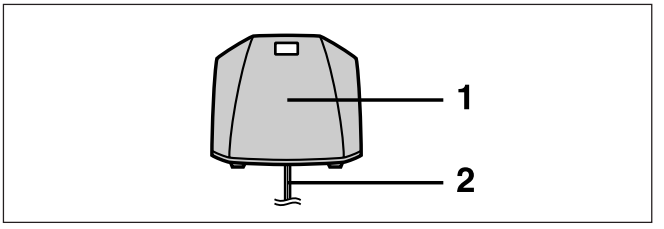
■ **Front speaker**

1. Super Tweeter
2. Tweeter
3. Woofer
4. Bass Reflex Ducts
5. Speaker Wire



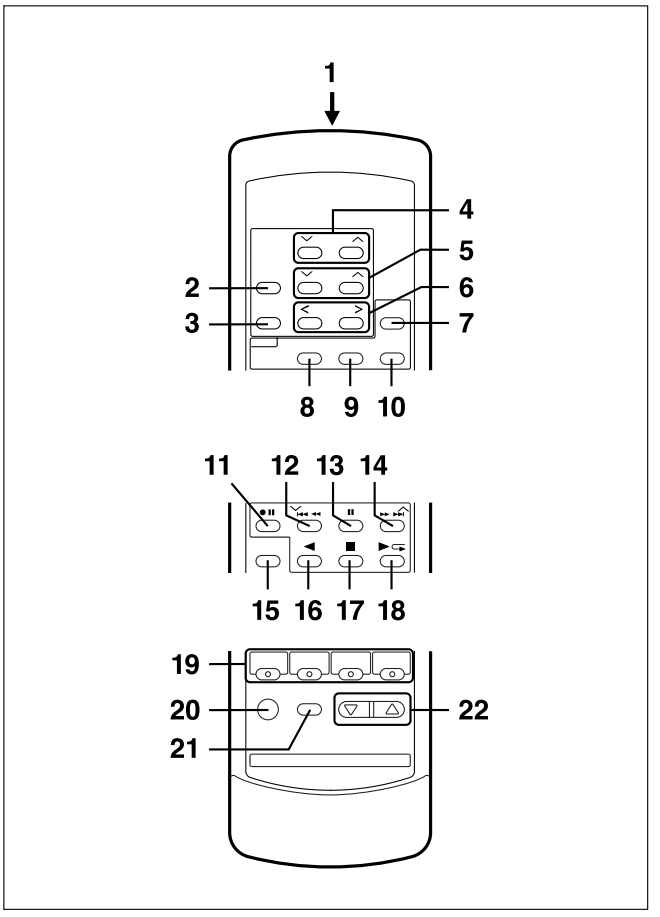
■ **Centre speaker**

1. Full-Range Speaker
2. Speaker Wire



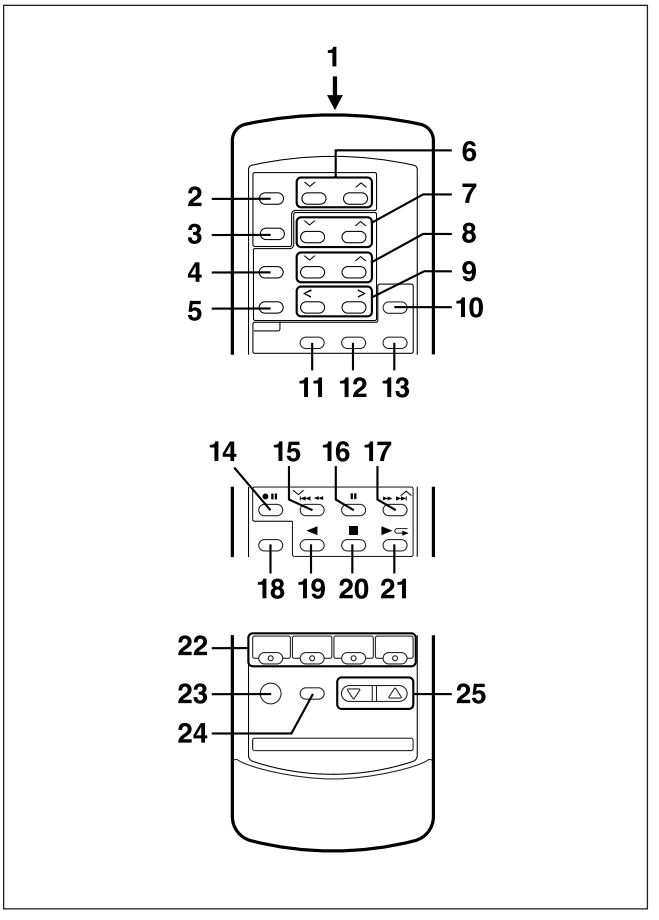
■ **Surround speaker**

1. Full-Range Speaker
2. Speaker Wire



■ Remote control [CD-DP2500W]

1. Remote Control Transmitter LED
2. Dolby Pro Logic Surround Mode Button
3. Test Tone Button
4. Centre Level Buttons
5. Surround Level Buttons
6. Balance Control Buttons
7. (CD) Disc Skip Button
8. (CD) Clear Button
9. (CD) Memory Button
10. (CD) Random Button
11. (TAPE 2) Record Pause Button
12. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Fast Wind Button
13. (CD) Pause Button
14. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Wind Button
15. Equalizer Mode Selector Button
16. (TAPE 2) Reverse Play Button
17. (CD/TAPE) Stop Button
18. (CD) Play/Repeat Button
    (TAPE 1) Play Button
    (TAPE 2) Forward Play Button
19. Function Selector Buttons
20. On/Stand-by Button
21. Extra Bass Button
22. Volume Up/Down Buttons

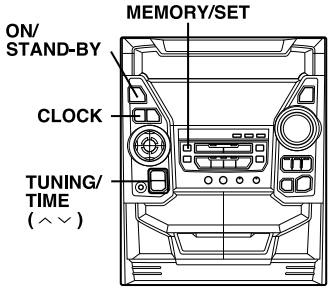


■ Remote control [CD-DK2500W]

1. Remote Control Transmitter LED
2. Karaoke Mode Button
3. Vocal Replacer Button
4. Dolby Pro Logic Surround Mode Button
5. Test Tone Button
6. Echo Level Up/Down Buttons
7. Centre Level Buttons
8. Surround Level Buttons
9. Balance Control Buttons
10. (CD) Disc Skip Button
11. (CD) Clear Button
12. (CD) Memory Button
13. (CD) Random Button
14. (TAPE 2) Record Pause Button
15. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Fast Wind Button
16. (CD) Pause Button
17. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Wind Button
18. Equalizer Mode Selector Button
19. (TAPE 2) Reverse Play Button
20. (CD/TAPE) Stop Button
21. (CD) Play/Repeat Button
    (TAPE 1) Play Button
    (TAPE 2) Forward Play Button
22. Function Selector Buttons
23. On/Stand-by Button
24. Extra Bass Button
25. Volume Up/Down Buttons

SETTING THE CLOCK

(Main unit operation)



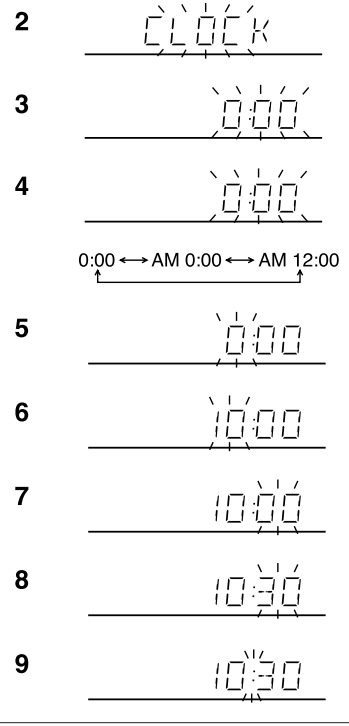


Illustration:CD-DP2500W

In this example, the clock is set for the 24-hour (0:00) system.

1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Press the CLOCK button.

3 Within 5 seconds, press the MEMORY/SET button.

4 Press the TUNING/TIME (∨ or ∧) button to select the time display mode.
"0:00" →The 24-hour display will appear. (0:00 - 23:59)
"AM 0:00" →The 12-hour display will appear. (AM 0:00 - PM 11:59)
"AM 12:00" →The 12-hour display will appear. (AM 12:00 - PM 11:59)
- Note that this can only be set when the unit is first installed or it has been reset.

5 Press the MEMORY/SET button.

6 Press the TUNING/TIME (∨ or ∧) button to adjust the hour.
- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY/SET button.

8 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes.
- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button.
- The clock starts operating from "0" second. (Seconds are not displayed.) And then the clock display will disappear after a few seconds.

To see the time display:
Press the CLOCK button.
- The time display will appear for about 5 seconds.

Note:
- The clock display will flash on and off at the push of the CLOCK button when the AC power supply is restored after a power failure occurs or after the AC power lead is disconnected.
  If this happens, follow the procedure below to change the clock time.

To change the clock time:

① Press the CLOCK button.
② Within 5 seconds, press the MEMORY/SET button.
③ Perform steps 6 - 9 above.

To change the time display mode:

① Perform steps 1 - 2 in the section "RESETTING THE MICROCOMPUTER".
② Perform steps 1 - 9 above.

RESETTING THE MICROCOMPUTER

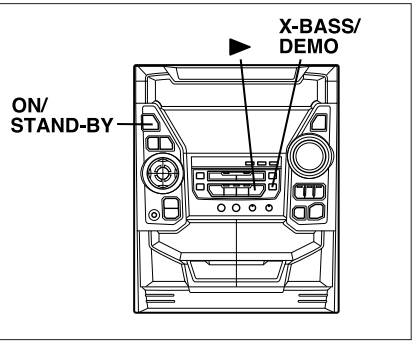


Illustration:CD-DP2500W

Reset the microcomputer under the following conditions:
- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Whilst pressing down the ▶ button and the X-BASS/ DEMO button, hold down the ON/STAND-BY button for at least 1 second.
- "CLEAR AL" will appear.

Caution:
- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take suffcient care on static electricity of integrated circuits and other circuits when servicing.

CD-DP2500H/DK2500W

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	9-1
2	Side Panel (Left/right)	1. Screw ..... (B1) x8	9-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x3	9-2
4	Rear Panel	1. Screw ..... (D1) x9	9-2
5	Main PWB	1. Screw ..... (E1) x3 2. Socket ..... (E2) x2 (CD-DP25000W) 2. Socket ..... (E2) x3 (CD-DK25000W) 3. Flat Cable ..... (E3) x1 4. Lug Wire ..... (E4) x1 5. Socket ..... (E5) x1	9-2 10-3
6	Power Supply PWB	1. Screw ..... (F1) x2 2. Socket ..... (F2) x5 3. Flat Wire ..... (F3) x1	10-3 10-4
7	Front Panel	1. Screw ..... (G1) x2	10-3
8	Karaoke PWB (CD-DK25000W ONLY)	1. Screw ..... (H1) x2	10-4
9	Display PWB/ Headphones PWB	1. Screw ..... (J1) x15 2. Flat Cable ..... (J2) x1	10-4
10	Tape Mechanism	1. Open the cassette holder 2. Screw ..... (K1) x5	10-4
11	Turntable	1. Hook ..... (L1) x2 2. Cover ..... (L2) x1	10-5
12	Disc Tray	1. Turn fully the lock lever in the arrow direction. 2. While holding the lock lever,rotate the cam gear until the cam gear rib engages with the clamp lever. 3. Push the slide holder backward to engage the claw with the groove and remove it in the direction of the arrow. ..... (M1) x6	10-1 10-2 10-6
13	CD Servo PWB (Note 2)	1. Screw ..... (N1) x1 2. Hook ..... (N2) x2 3. Socket ..... (N3) x4	11-1
14	CD Mechanism	1. Hook ..... (P1) x2 2. Hook ..... (P2) x3	11-2
15	Loading Motor PWB	1. Hook ..... (Q1) x5	11-2

Note 1:

How to open the changer manually. (Fig. 10-1)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom.
2. While holding the lock lever, rotate the cam gear anticlockwise until the cam gear rib engages with the clamp lever. (Fig. 10-2)
3. After that, push forward the CD slide holder.

Note 2:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

Note 3:

1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

CD-DP2500H/DK2500W

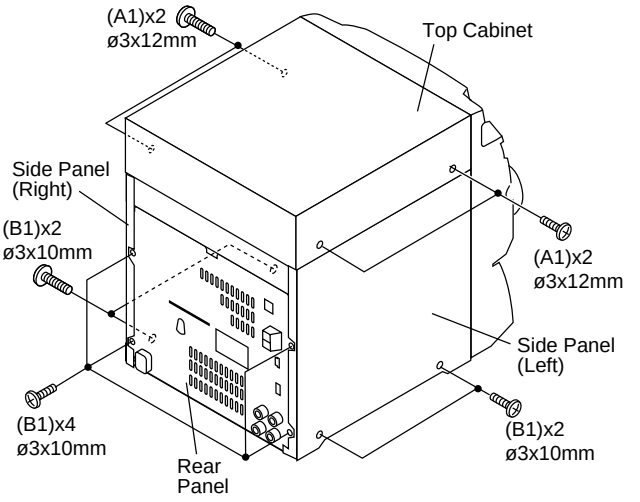


Figure 9-1

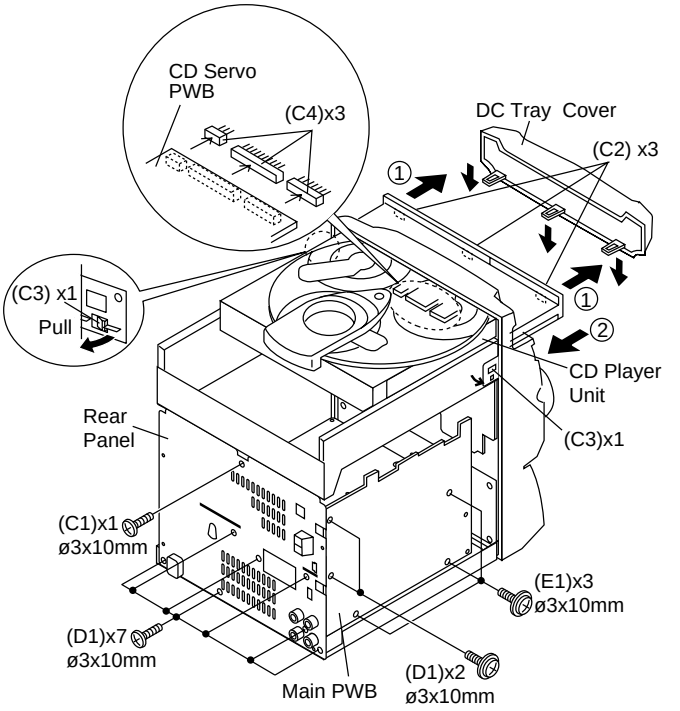


Figure 9-2

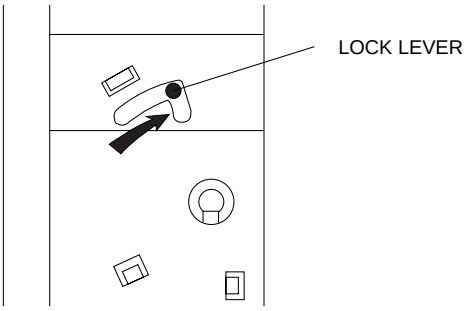


Figure 10-1

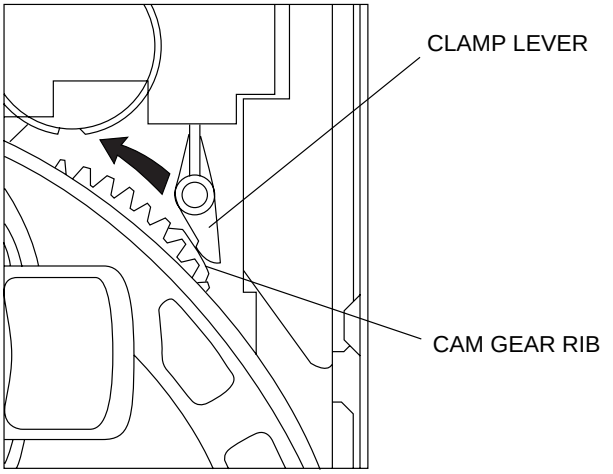


Figure 10-2

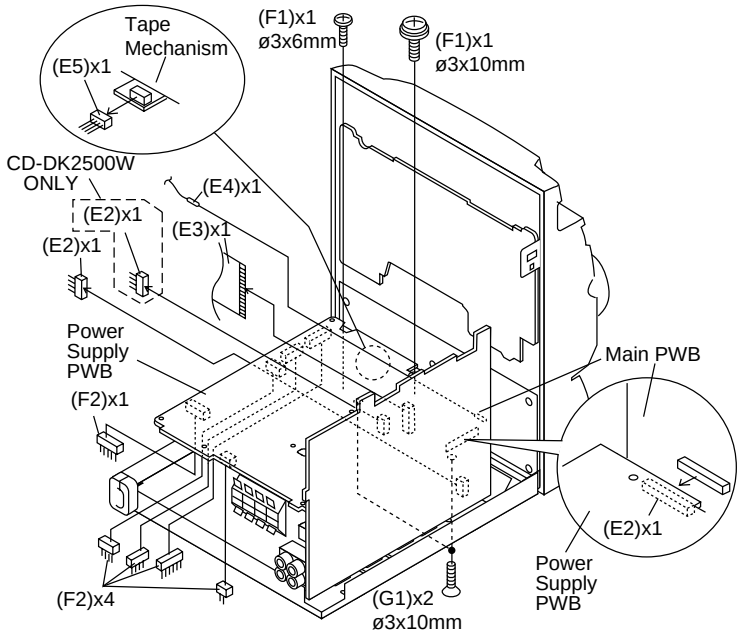


Figure 10-3

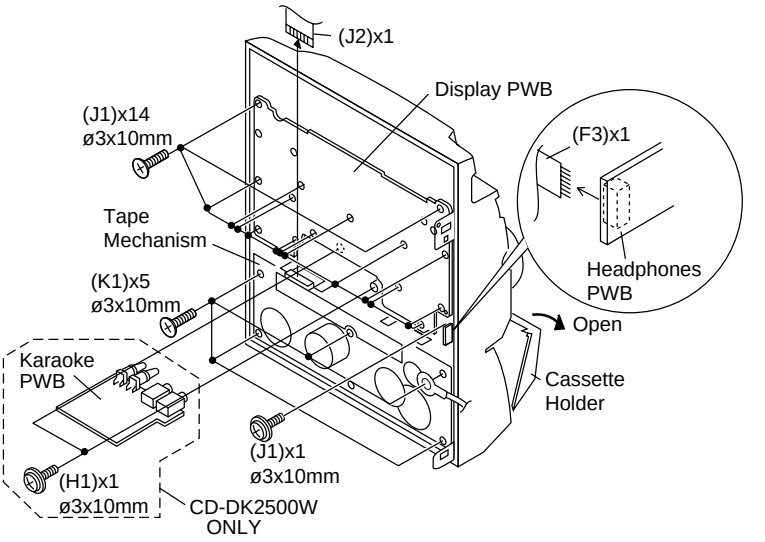


Figure 10-4

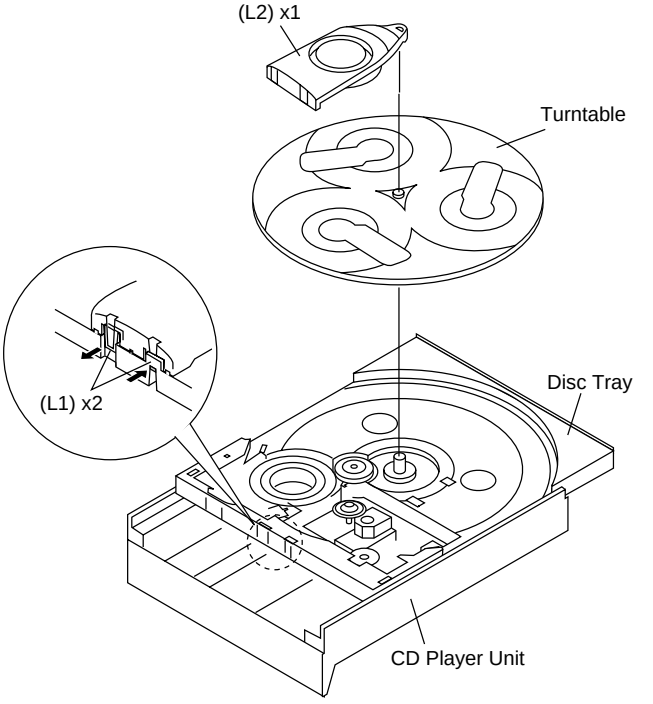


Figure 10-5

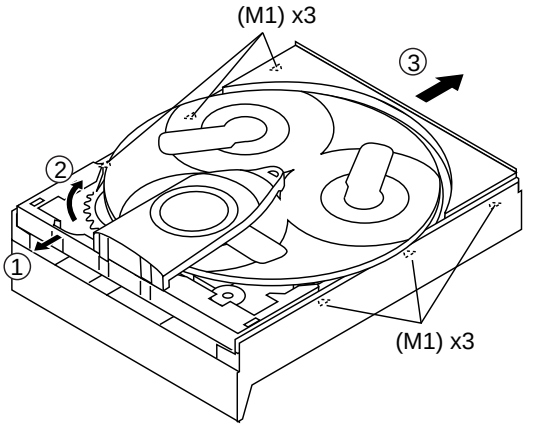


Figure 10-6

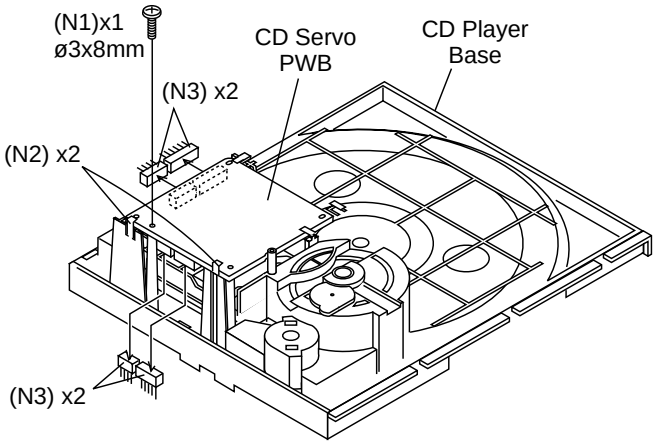


Figure 11-1

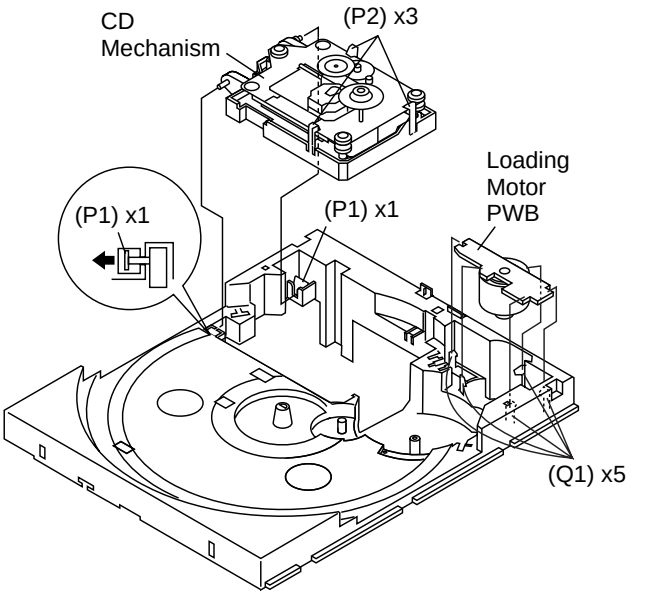


Figure 11-2

CP-DP2500

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Panel	1. Front Panel ..... (A1) x1	11-3
2	Woofer	1. Screw ..... (B1) x4	11-3
4	Tweeter	1. Screw ..... (C1) x2	11-3
5	Super Tweeter	1. Screw ..... (D1) x2	11-3

CP-DP2500

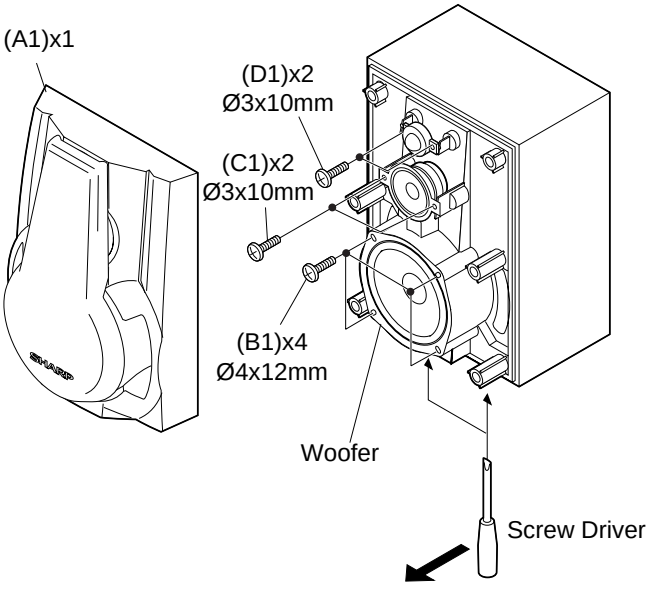


Figure 11-3

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 7 and 10 of the disassembly method to remove the tape mechanism.

How to remove the record/playback and erase heads (TAPE 2) (See Fig. 12-1)

1. When you remove the screw (A1) x 2 pcs., the recording/ playback head and three-dimensional head of the erasing head can be removesd.

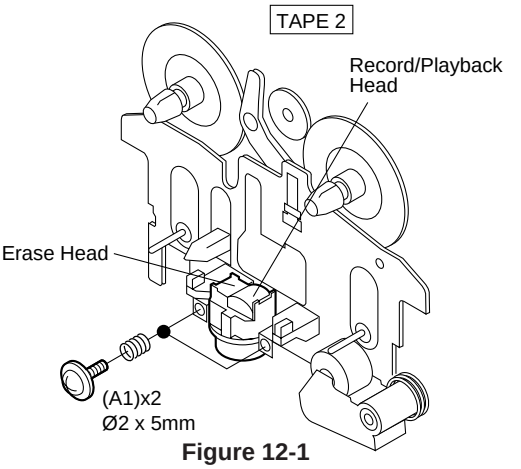


Figure 12-1

How to remove the playback head (TAPE 1) (See Fig. 12-2)

1. When you remove the screw (B1) x 2 pcs., the playback head.

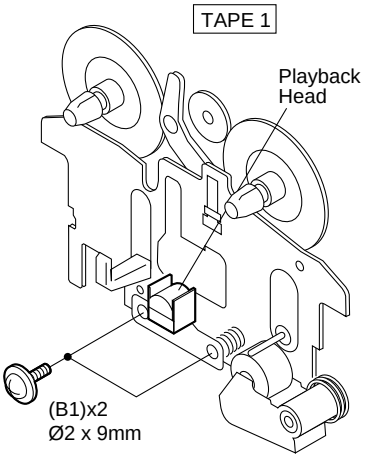


Figure 12-2

How to remove the pinch roller (TAPE 1/2) (See Fig. 12-3)

1. Carefully push the inside claw to remove it. The pinch roller pawl in the direction of the arrow **<A>**, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow **<B>**.

Note:

When installing the pinch roller, pay attention to the spring mounting position.

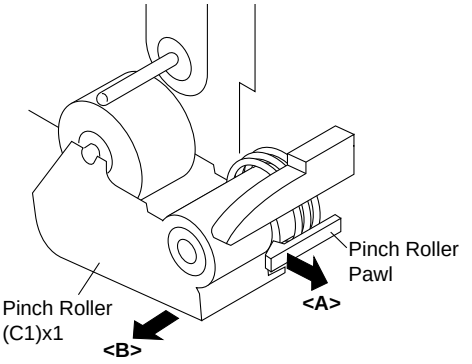


Figure 12-3

How to remove the belt (TAPE 1) (See Fig. 12-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

How to remove the belt (TAPE 2) (See Fig. 12-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

How to remove the motor (See Fig. 12-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

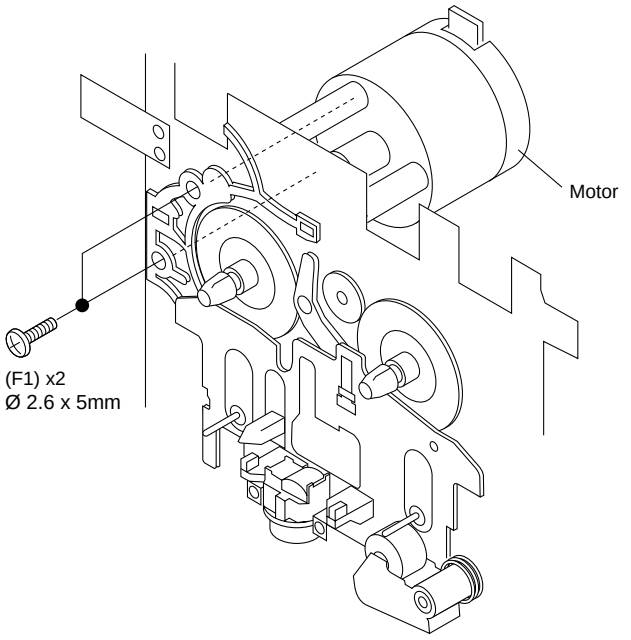


Figure 12-5

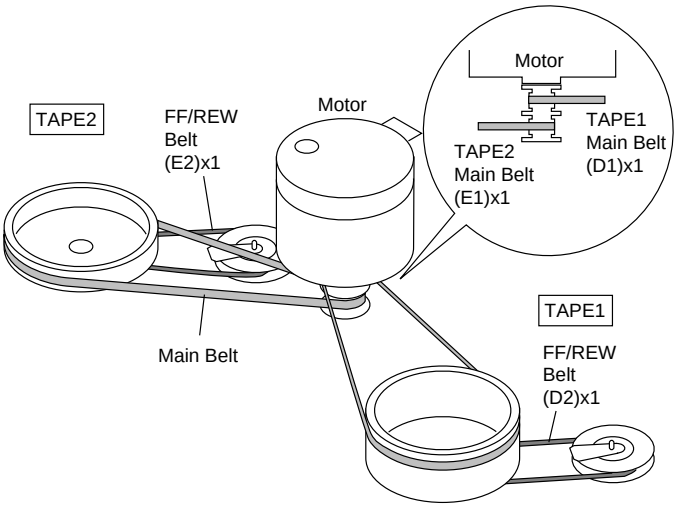


Figure 12-4

CD MECHANISM SECTION

Perform steps 1, 2, 3, and 11 to 14 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 13-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.

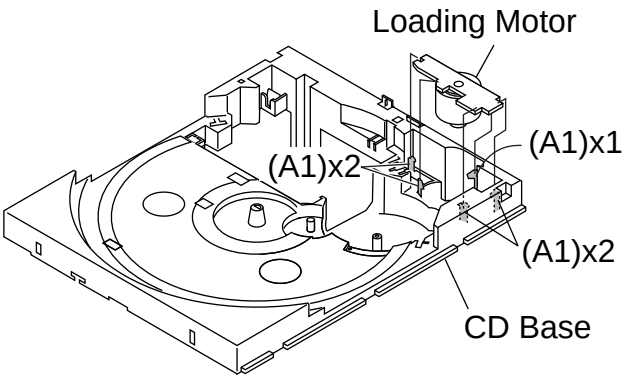


Figure 13-1

How to remove the pickup (See Fig. 13-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2).
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4).
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

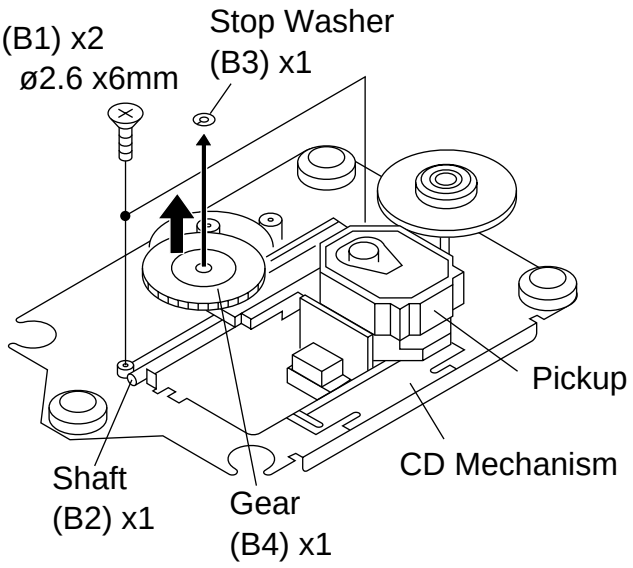


Figure 13-2

TEST MODE

During POWER OFF mode,push below each 2 keys [ON/STAND-BY] key.
Then go to each TEST MODE.

KEY	TEST MODE	CONTENTS
[ON/STAND-BY] [TUNER] + [X-BASS]	TEST 1	TUNER PRESET MEMORY CLEAR
[ON/STAND-BY] [MEMORY/SET] + [X-BASS]	TEST 2	TUNER PRESET FOR PRODUCTION
[ON/STAND-BY] [>>] + [X-BASS]	TEST 3	KEY AND DISPLAY TEST
[ON/STAND-BY] [CD] + [X-BASS]	TEST 4	CD TEST MODE
[ON/STAND-BY] [TAPE] + [X-BASS]	TEST 5	TAPE TEST MODE
[ON/STAND-BY] [>] + [X-BASS]	TEST 6	ALL CLEAR(RESET)
[ON/STAND-BY] [TUN UP] + [X-BASS]	TEST 7	AUDIO TEST
[ON/STAND-BY] [TUN DOWN] + [X-BASS]	TEST 8	PRODUCTION INITIALIZE FOR CHANGER

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g. cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor. (MM1)	3,000 ± 30 Hz	Speaker terminal (Load resistance: 6 ohms)

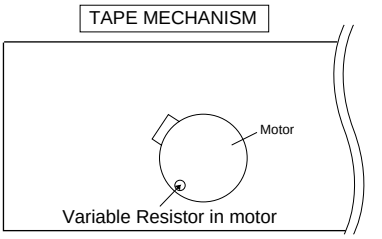


Figure 14-1

TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,602 kHz	T351	*1
AM Band Coverage	—	531 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna,SO301 Output: TP302
*2. Input: Antenna,SO301 Output: TP301

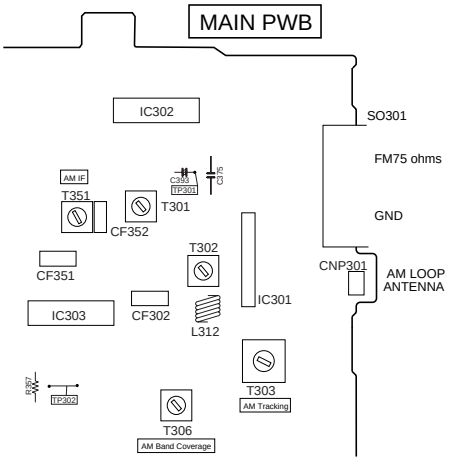


Figure 14-2 ADJUSTMENT POINT

CD SECTION

• Adjustment

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.
Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

(1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
  * Focus offset adjustment
  * Tracking offset adjustment

(2) Tracking balance adjustment (waveform drawing 14-3 EFBL)

(3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0dB.)
  * Focus gain adjustment
  * Tracking gain adjustment

CD ERROR CODE DESCRIPTION

Error	State Code
	[Servo System Error]
0001	Cannot detect Pickup-in SW
0002	DSP access error
	[Error during close operation]
0101	Open/Close SW not functioning (Low → High)
0103	Open/Close SW not functioning (High → Low)
	[Error during open operation]
0201	Open/Close SW not functioning (Low → High)
0203	Open/Close SW not functioning (High → Low)
	[Error during skip operation]
0302	Pickup-in SW is not detected
0306	During Disc 1 search, Open/Close SW or Clamp SW or Disc SW do not change to low.
0307	Clamp SW not function (Low → High)
0308	Clamp SW not function (High → Low)

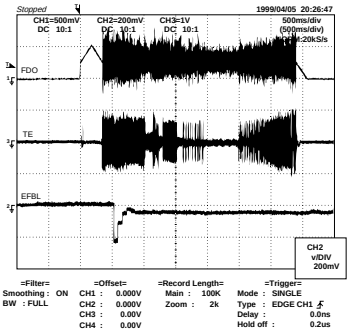


Figure 14-3

EXPLANATION OF DOLBY SURROUND PRO LOGIC AND EVALUATION METHOD

Outline

- Namely, two speakers are connected in parallel to one amplifier.
- In the Pro Logic BYPASS mode the amplifier for C-ch (center channel) and the amplifier for S-ch (surround channel) are in MUTE state. The SP output is cut.
- In the normal mode of Pro Logic ON mode the amplifiers for C-ch and S-ch are in operative state, so that the SP output appears.
- In the Phantom mode of Pro Logic ON mode the amplifier for C-ch is in MUTE state, so that the SP output is cut. The amplifier for S-ch (surround) is in operative state, so that the SP output appears

• State of element output and terminal output in specific mode

State of set / Output point		Dolby Pro Logic Bypass mode	Dolby Pro Logic On mode Normal mode	Dolby Pro Logic On mode Phantom mode
IC501	1 pin L-out	Output enabled state	Output enabled state	Output enabled state
	2 pin R-out	Output enabled state	Output enabled state	Output enabled state
IC501	3pin C-out	No output	Output enabled state	No output
IC501	9pin S-out	No output	Output enabled state	Output enabled state
SP OUT (SO901)	L-ch	Output enabled state	Output enabled state	Output enabled state
	R-ch	Output enabled state	Output enabled state	Output enabled state
SP OUT C-ch (SO901)		No output in MUTE (Q501) state	Output enabled state	No output in MUTE (Q501) state
SP OUT S-ch (SO901)		No output in MUTE (Q502) state	Output enabled state	Output enabled state

Test tone output

• Pro Logic ON Normal mode

Press the remote control TEST TONE button.

→Output of only L-ch →Output of only C-ch
↑ ↓
Output of only S-ch ← Output of only R-ch

The test tone (noise) is repeatedly output for output period (2 sec).

In this case the following indication appears repeatedly.

→TEST →L-ch →C-ch
↑ ↓
S-ch ← R-ch

• Pro Logic ON Phantom mode

Press the remote control TEST TONE button.

→Output of only L-ch →Output of only R-ch
↑ ↓
← Output of only S-ch

The test tone (noise) is repeatedly output for output period (2 sec).

In this case the following indication appears repeatedly.

→TEST → L-ch → R-ch
↑ ↓
← S-ch←

Relation between VIDEO IN input and output in Pro Logic ON state

(1) L-ch/R-ch same phase input into VIDEO IN input jack in VIDEO Function mode

Output point		Normal mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		Input signal is output.
(SO901) SP out S-ch		Almost no output (only omitting component)

Output point		Phantom mode
SP out (SO901)	L-ch	Input signal is output.
	R-ch	Input signal is output.
(SO901) SP out C-ch		SP cut, no output
(SO901) SP out S-ch		Almost no output (only omitting component)

(2) L-ch/R-ch reverse phase input into VIDEO IN input jack in VIDEO Function mode

(Reverse phase: Phase difference between L and R is 180°)

Output point		Normal mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		Almost no output (only omitting component)
(SO901) SP out S-ch		Input signal is output.

Output point		Phantom mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		SP cut, no output
(SO901) SP out S-ch		Input signal is output.

• Accordingly, if you want to output signal waveform to C-ch SP out, give the same phase input into L-ch/R-ch INPUT in the Pro Logic Normal mode.

If one of channels receives input, C-ch does not output. Only L-ch or R-ch outputs.

• If you want to output signal waveform to S-ch SP out, you can use either Normal mode or Phantom mode. However, 180° reverse phase input must be given to L-ch/R-ch INPUT.

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
     < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ═ ═ ═ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	CD	ON—OFF
SW702	TAPE	ON—OFF
SW703	TUNING DOWN	ON—OFF
SW704	MEMORY/SET	ON—OFF
SW705	REV	ON—OFF
SW706	FF	ON—OFF
SW707	PLAY	ON—OFF
SW708	STOP	ON—OFF
SW710	REC	ON—OFF
SW711	TUNING UP	ON—OFF
SW712	VIDEO	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW713	TUNING	ON—OFF
SW714	DIMMER	ON—OFF
SW715	X-BASS	ON—OFF
SW716	EQUAL	ON—OFF
SW717	NORMAL	ON—OFF
SW718	PHANTOM	ON—OFF
SW719	BY-PASS	ON—OFF
SW720	ON/STAND-BY	ON—OFF
SW721	CLOCK	ON—OFF
SW722	TIMER	ON—OFF
SW728	DISC 1	ON—OFF
SW729	DISC 2	ON—OFF
SW730	DISC 3	ON—OFF
SW731	DISC SKIP	ON—OFF
SW732	OPEN/CLOSE	ON—OFF

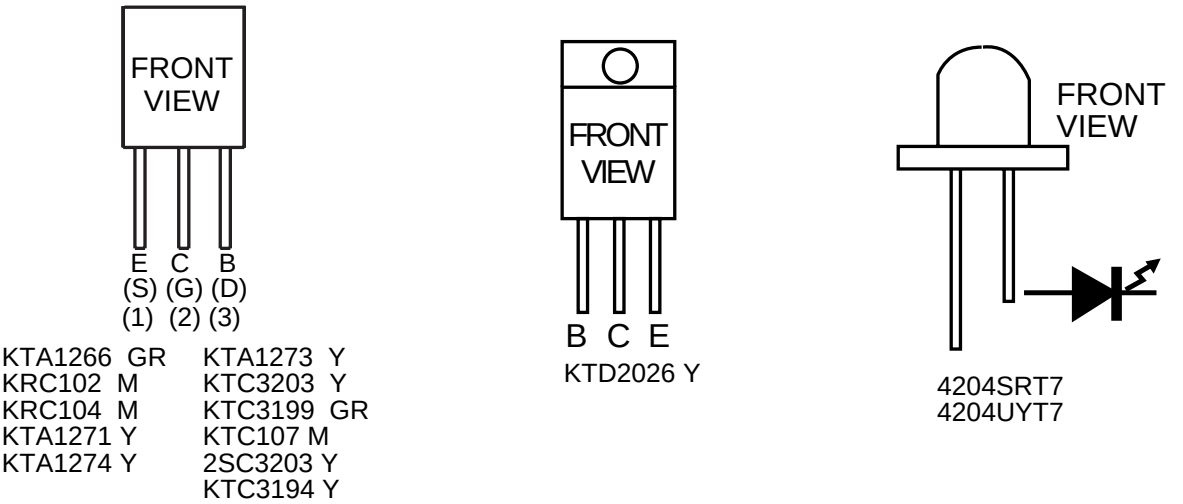


Figure 20 TYPES OF TRANSISTOR AND LED

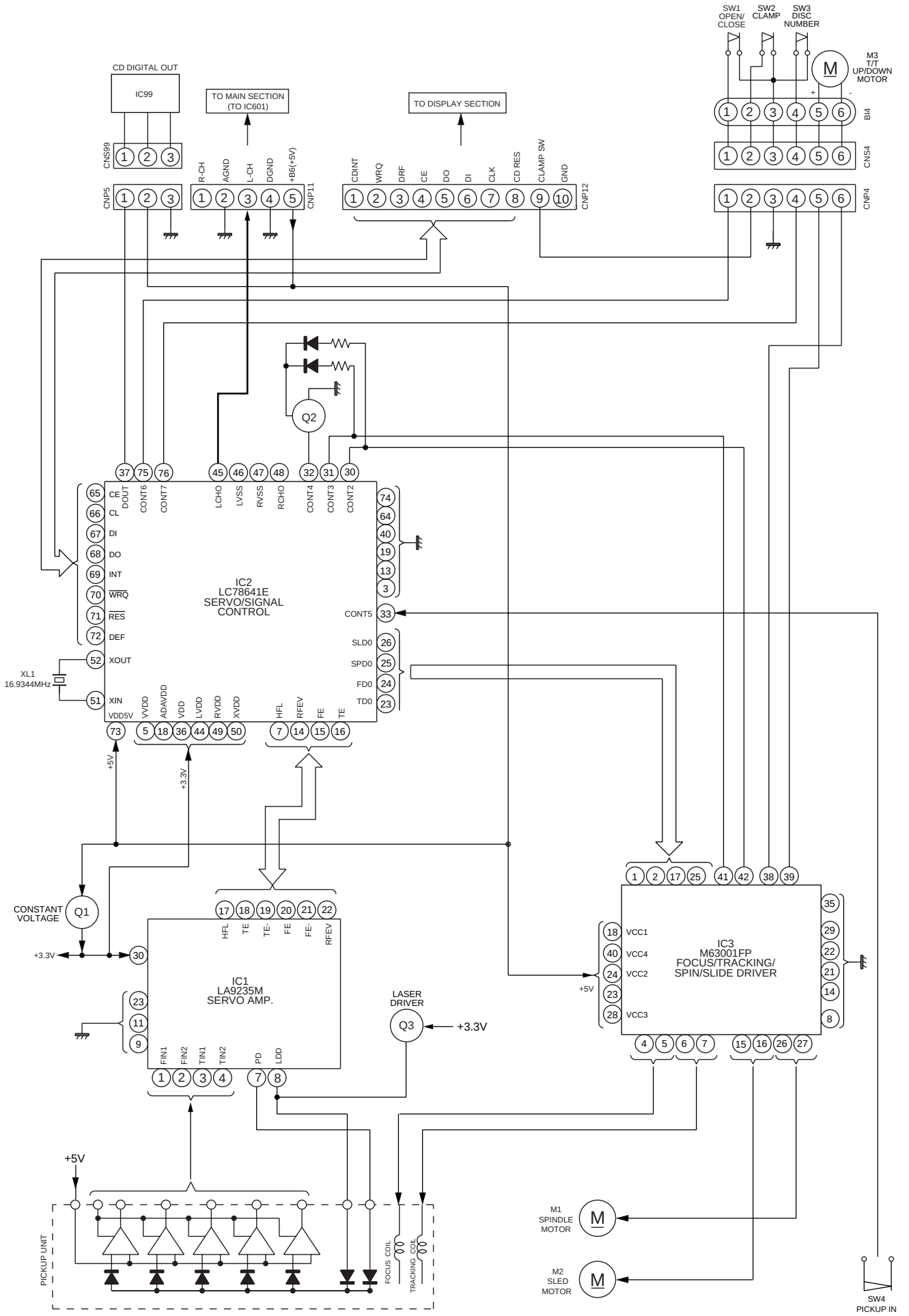


Figure 21 BLOCK DIAGRAM (1/3)

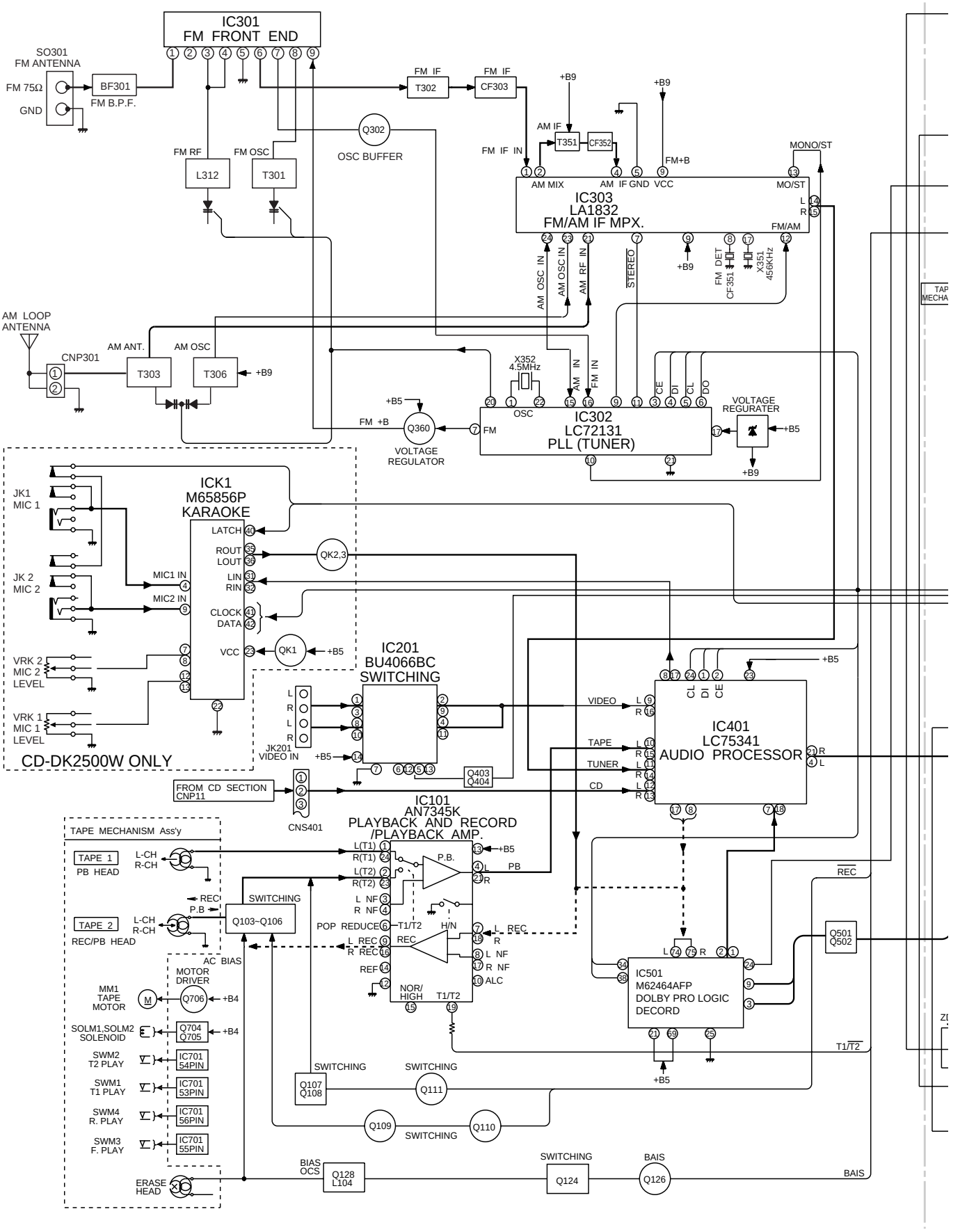


Figure 22 BLOCK DIAGRAM (2/3)

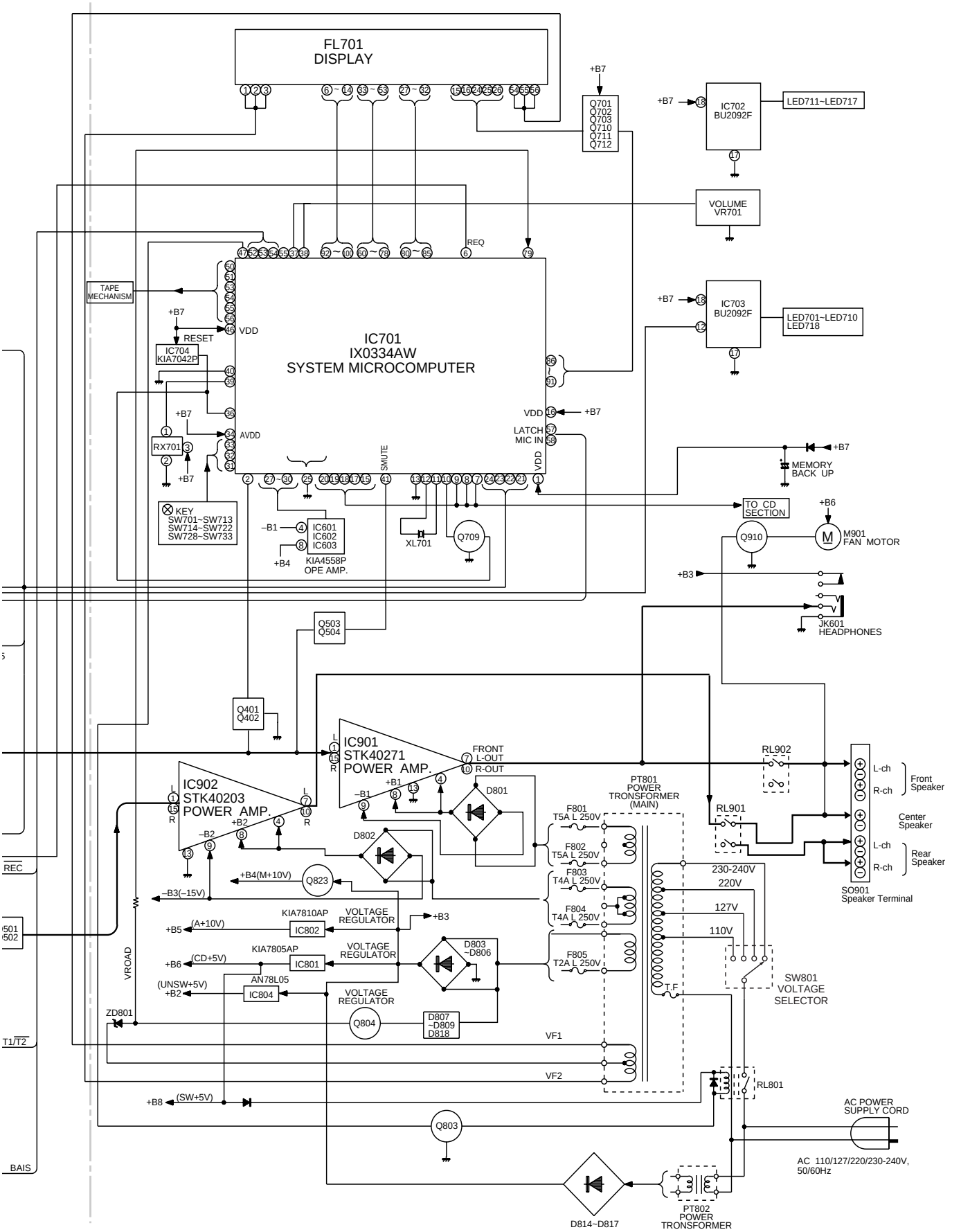
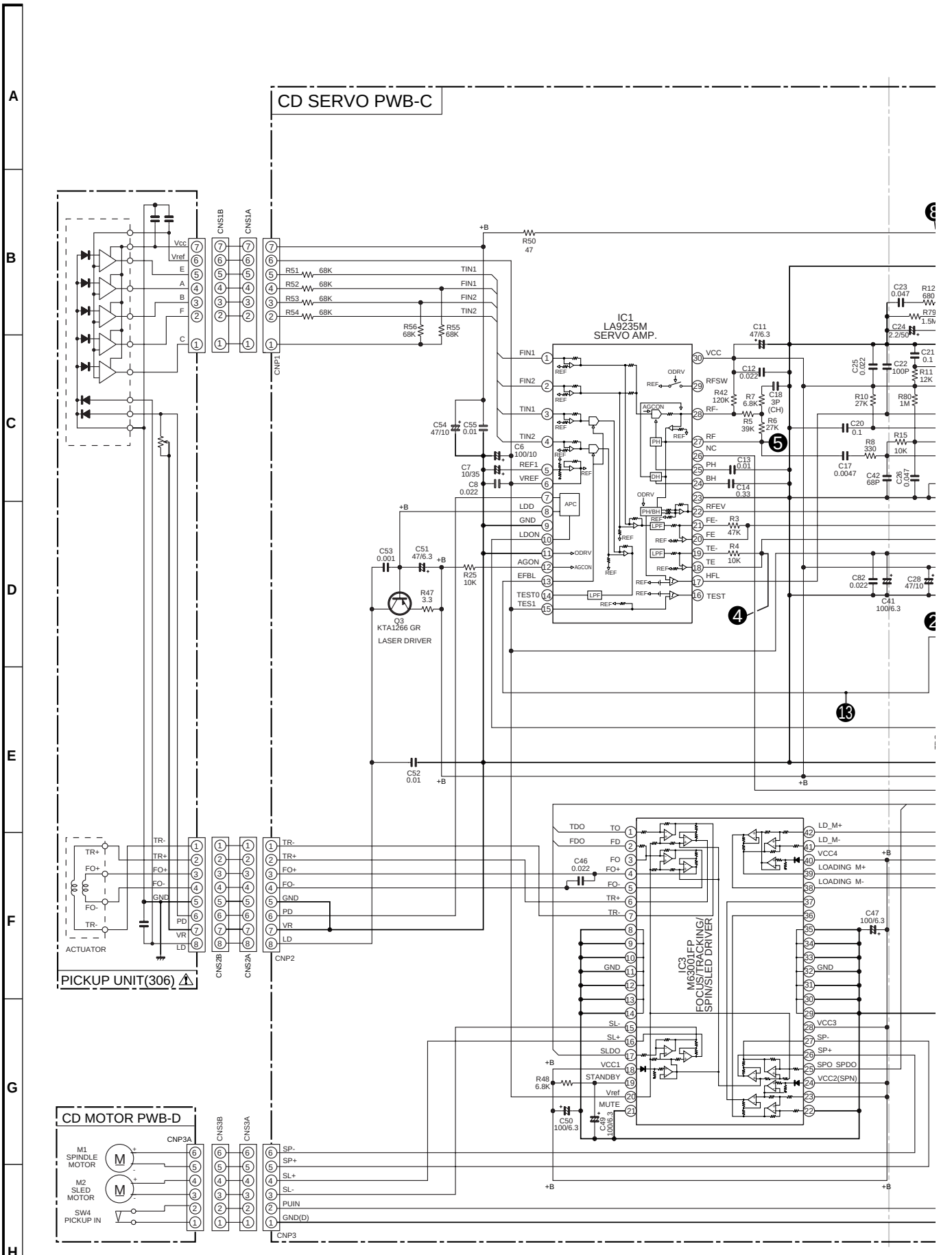
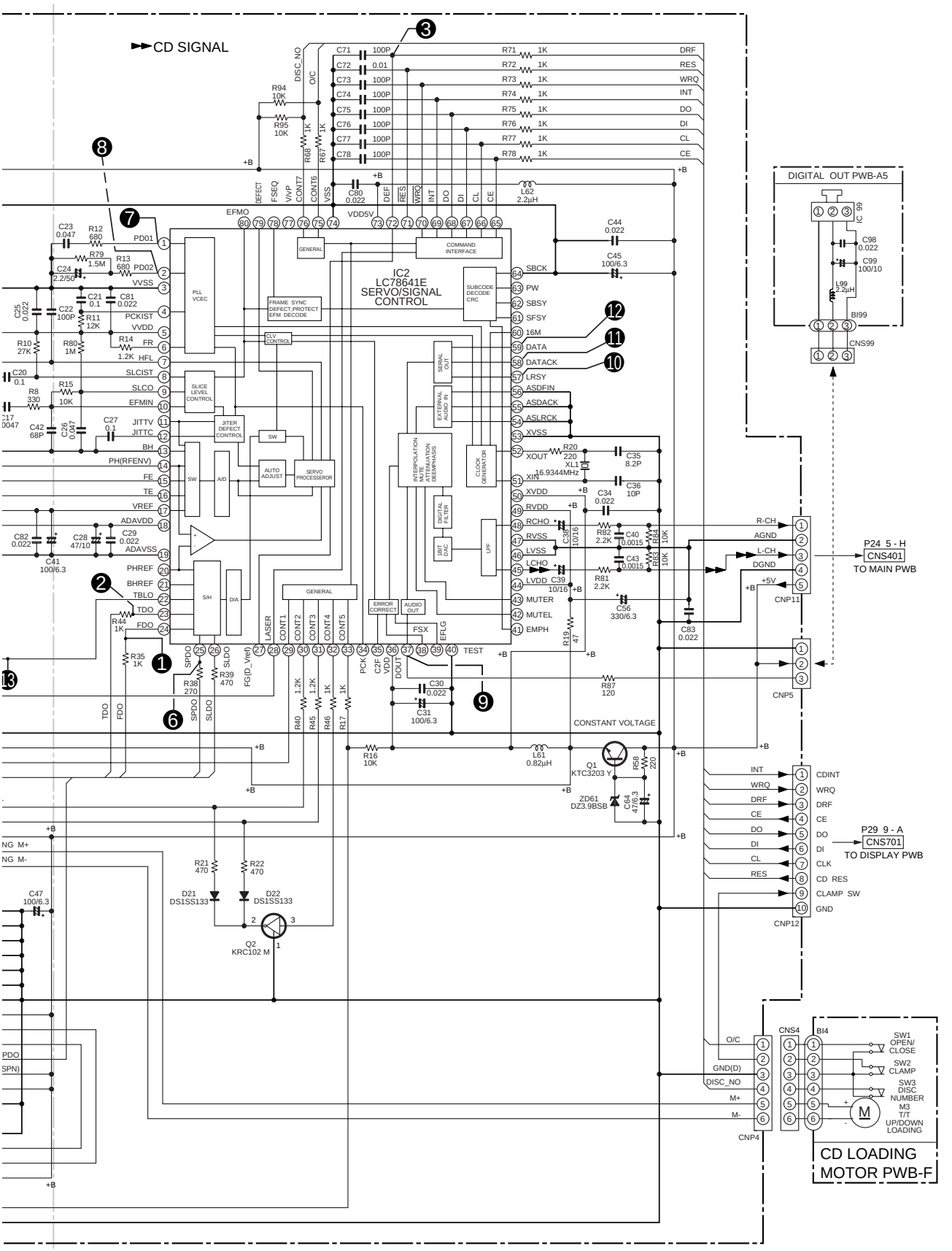


Figure 23 BLOCK DIAGRAM (3/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

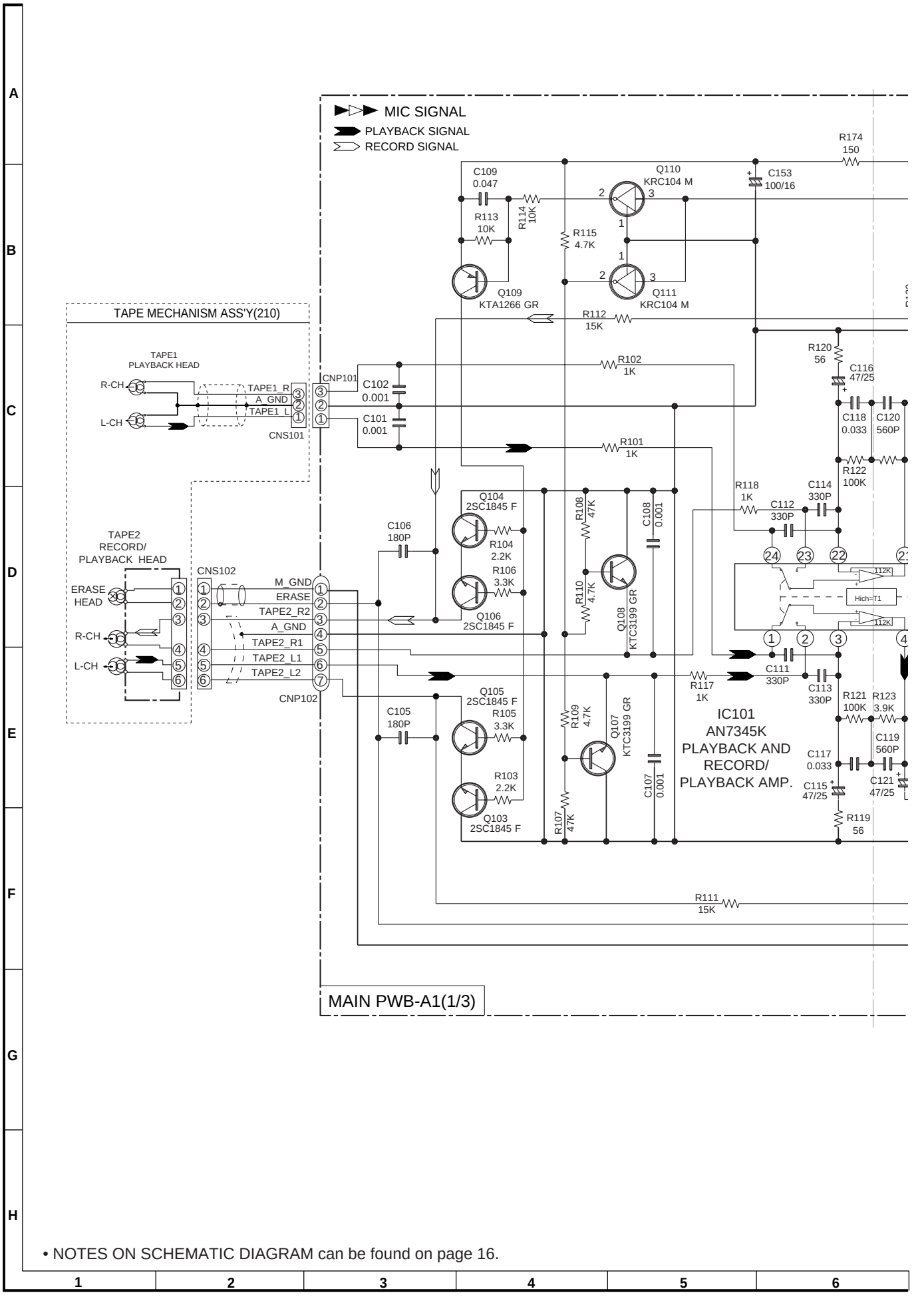
Figure 20 SCHEMATIC DIAGRAM (1/13)



• The numbers ❶ to ⓭ are waveform numbers shown in page 43.

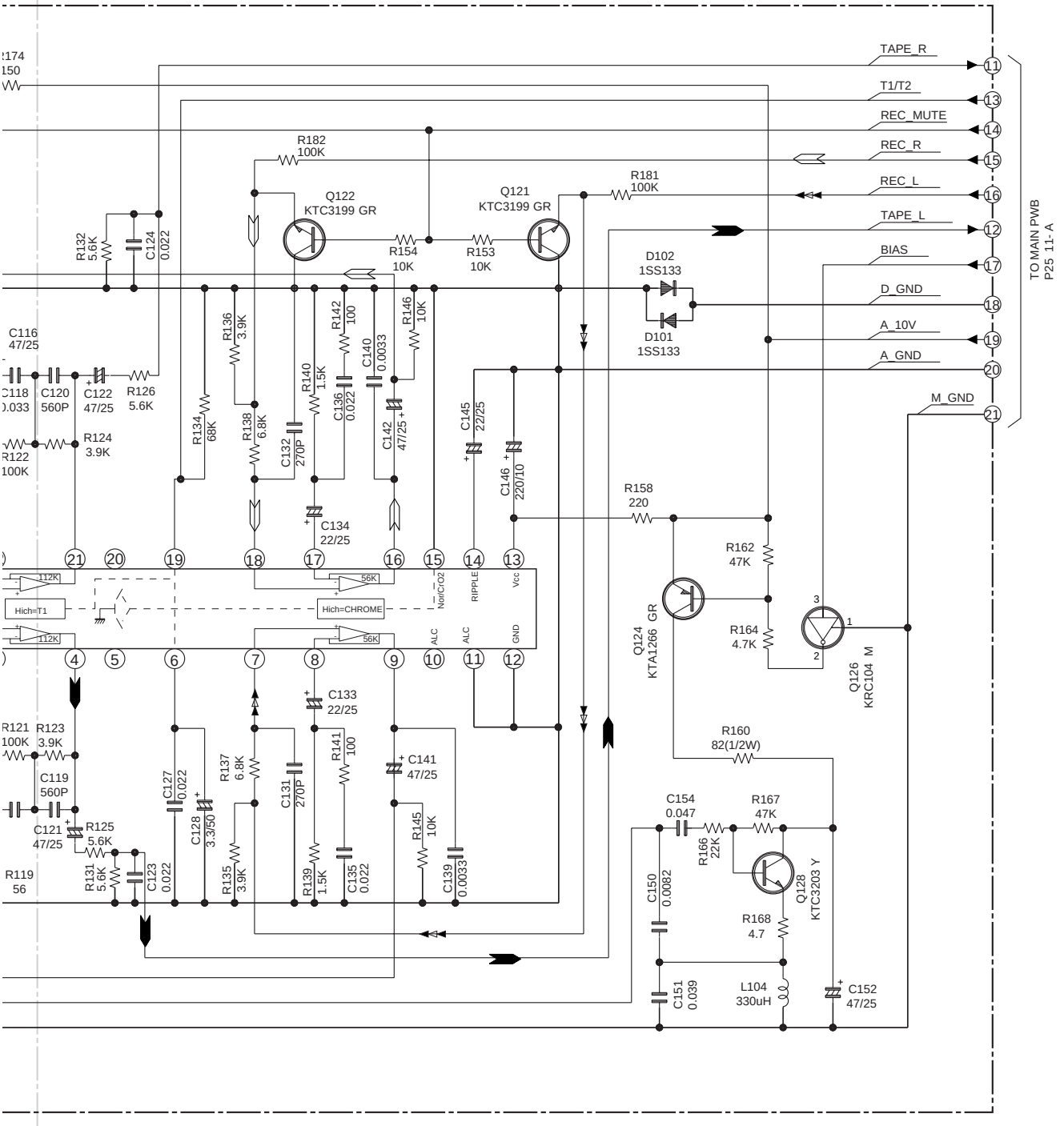
7	8	9	10	11	12

Figure 21 SCHEMATIC DIAGRAM (2/13)



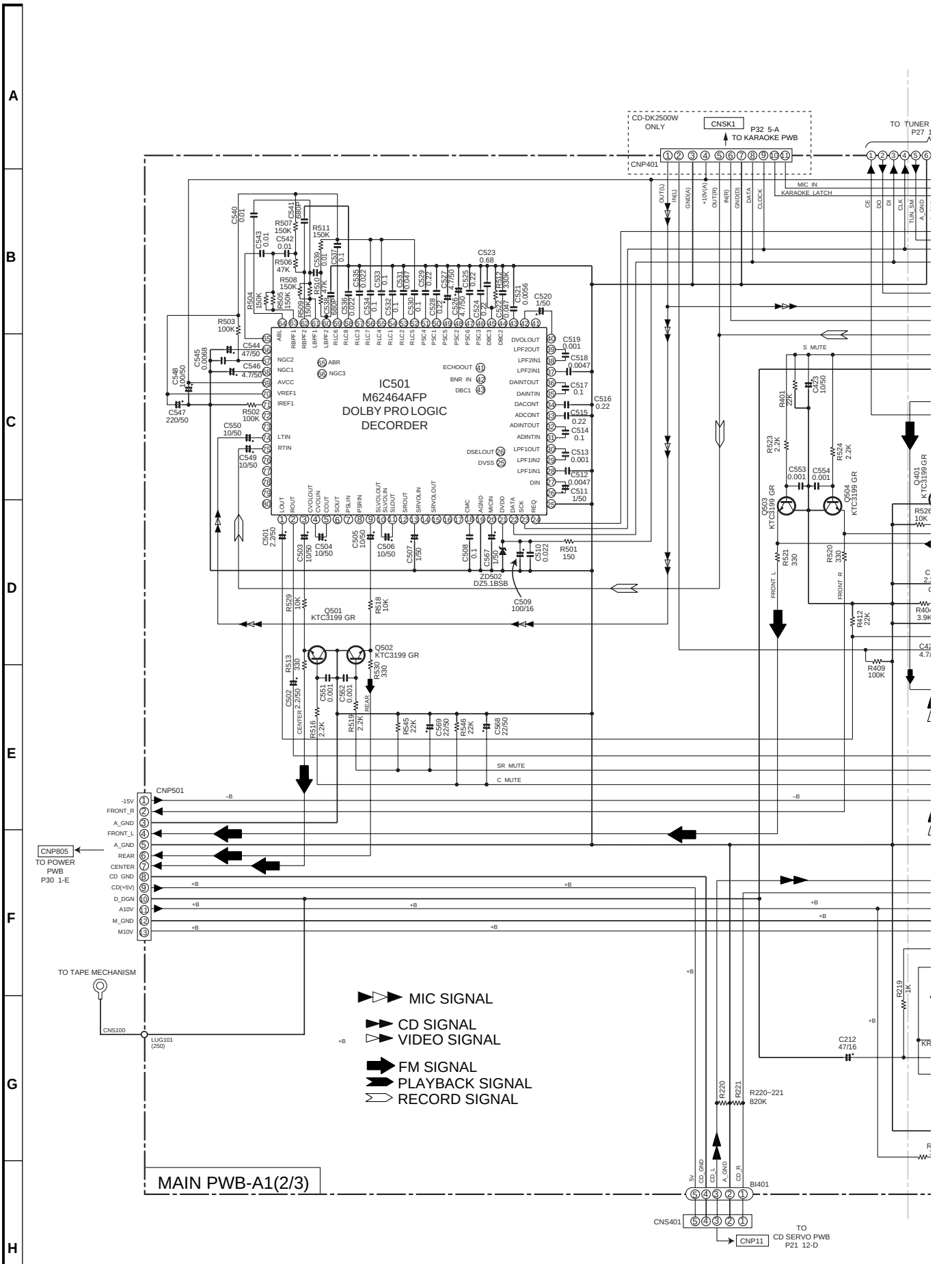
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 22 SCHEMATIC DIAGRAM (3/13)



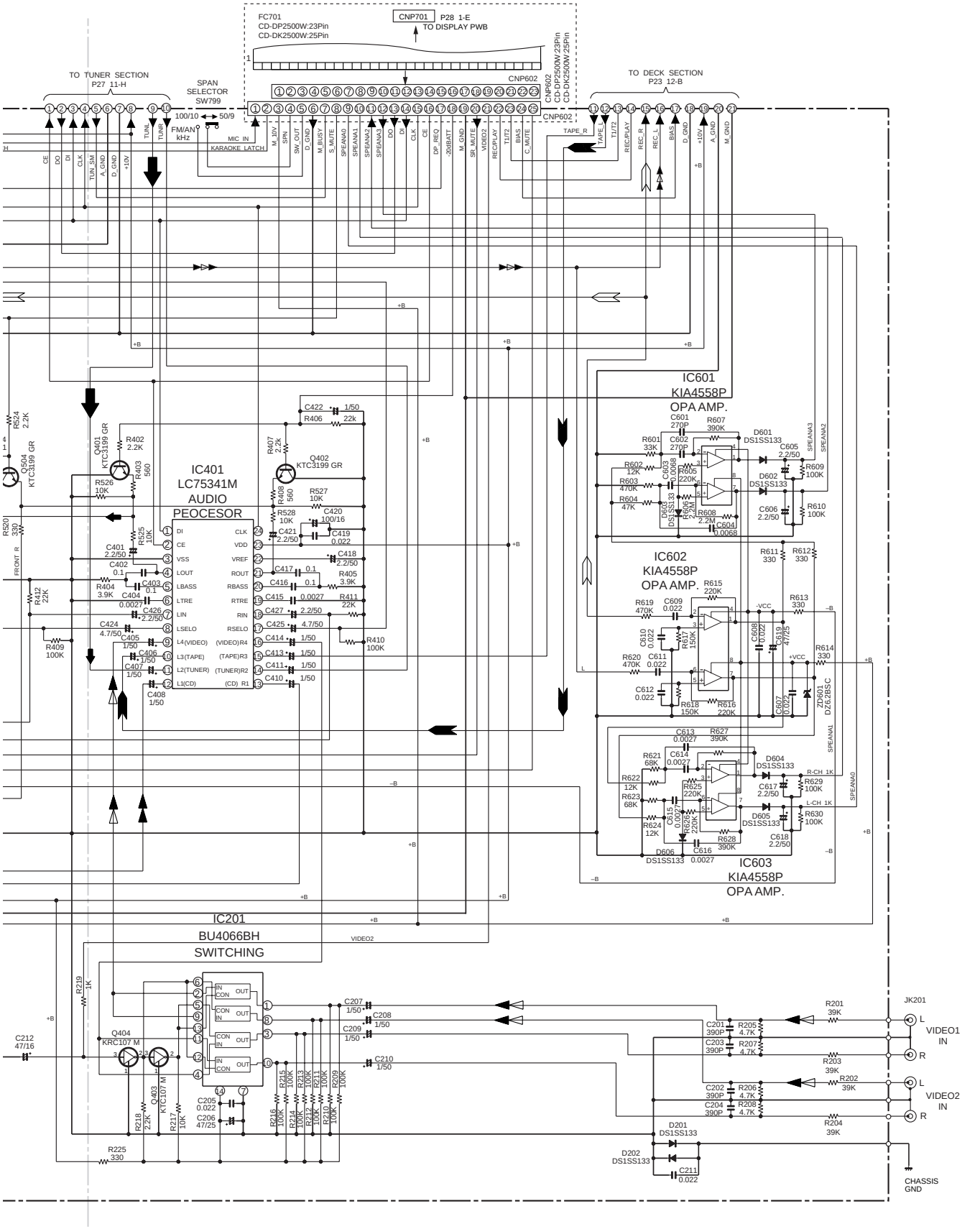
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (4/13)



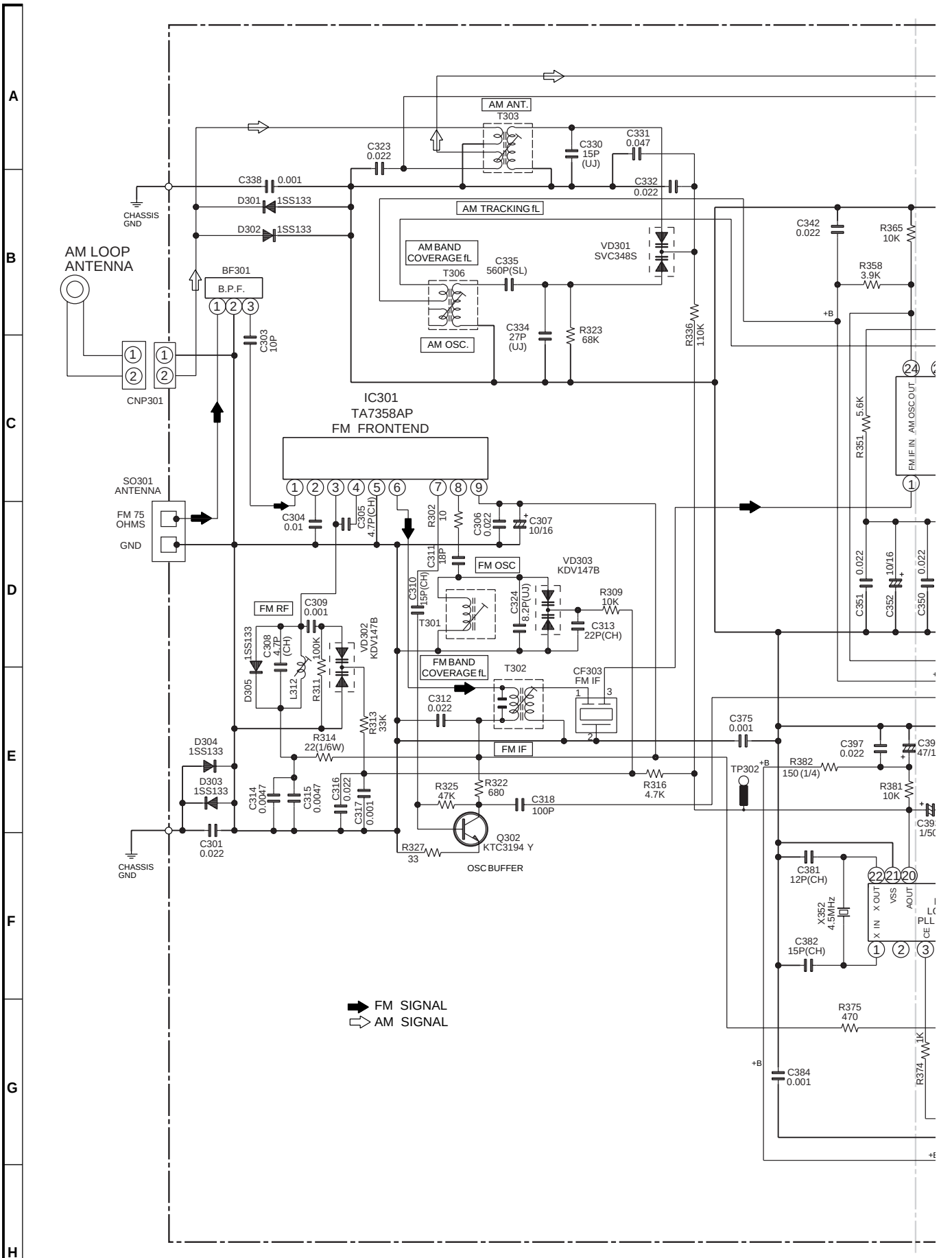
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 24 SCHEMATIC DIAGRAM (5/13)



7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (6/13)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 26 SCHEMATIC DIAGRAM (7/13)

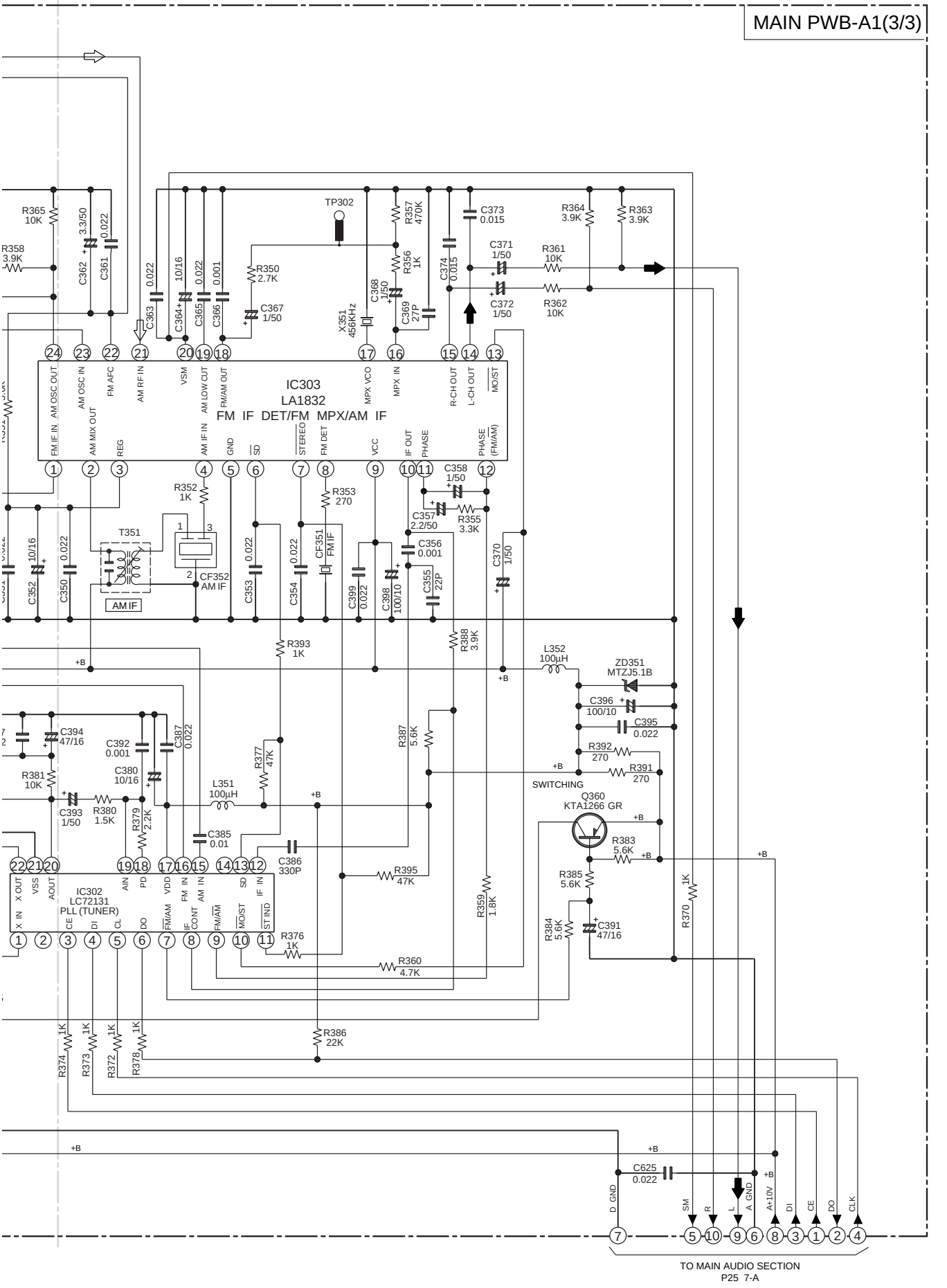
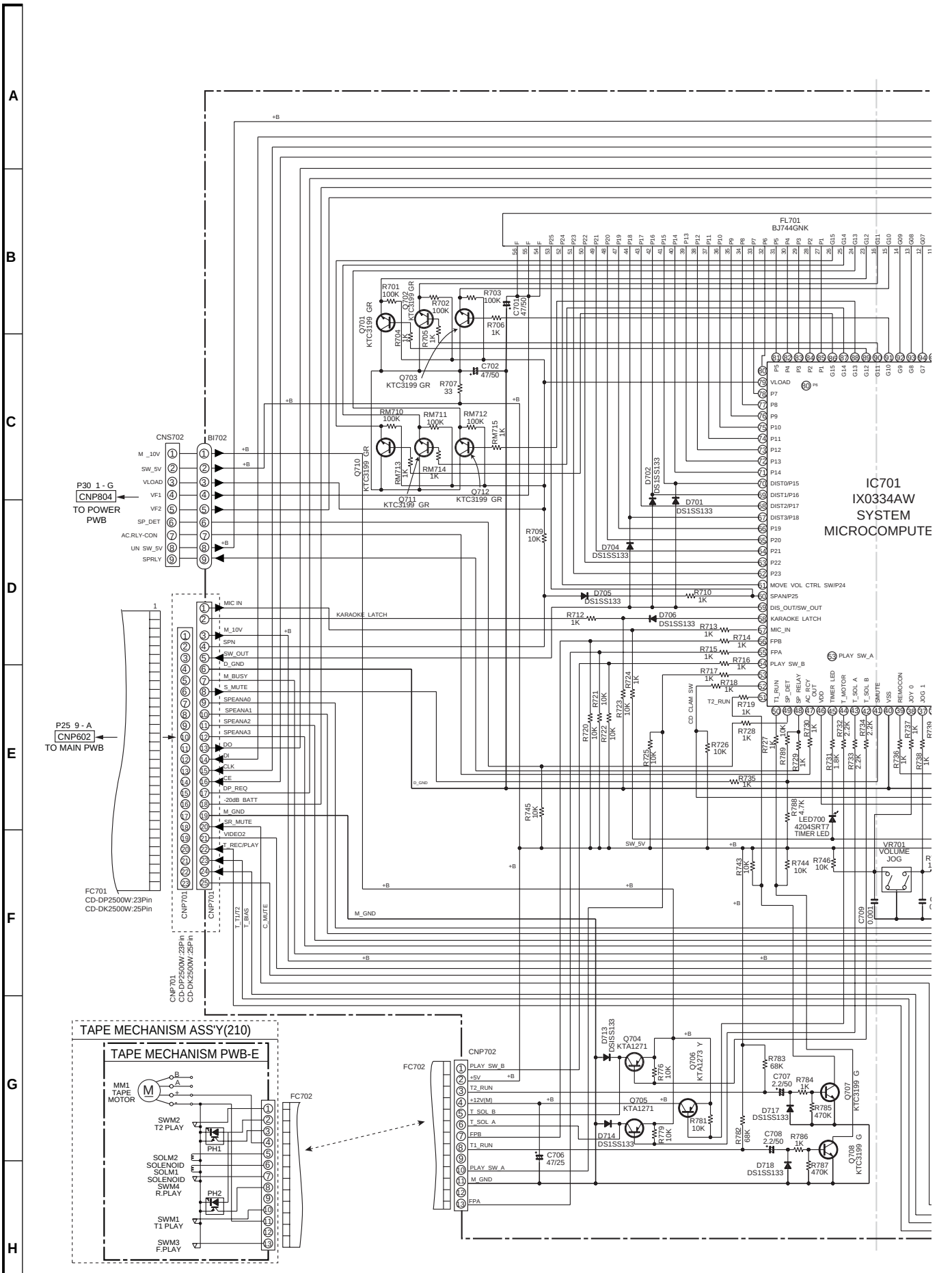
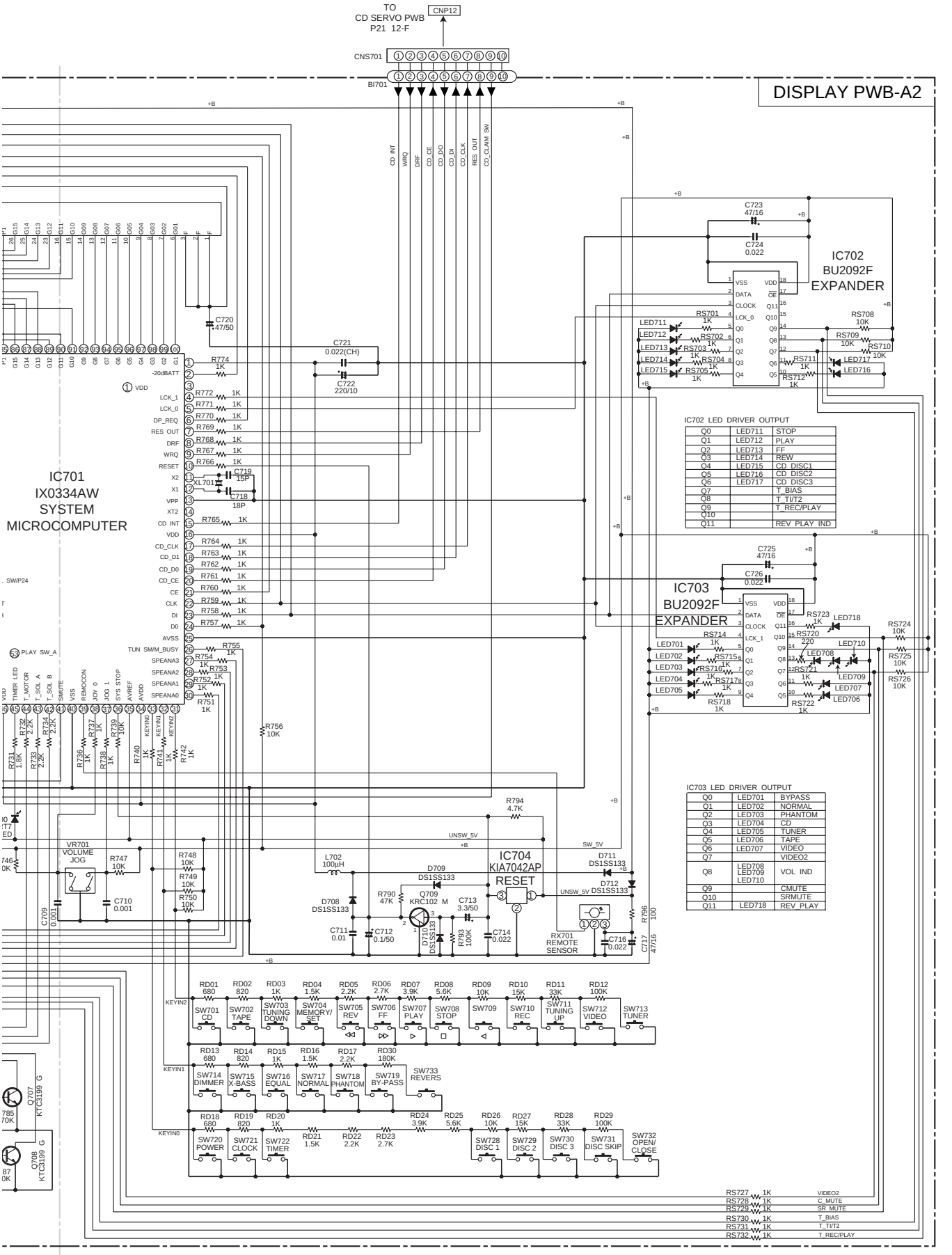


Figure 27 SCHEMATIC DIAGRAM (8/13)



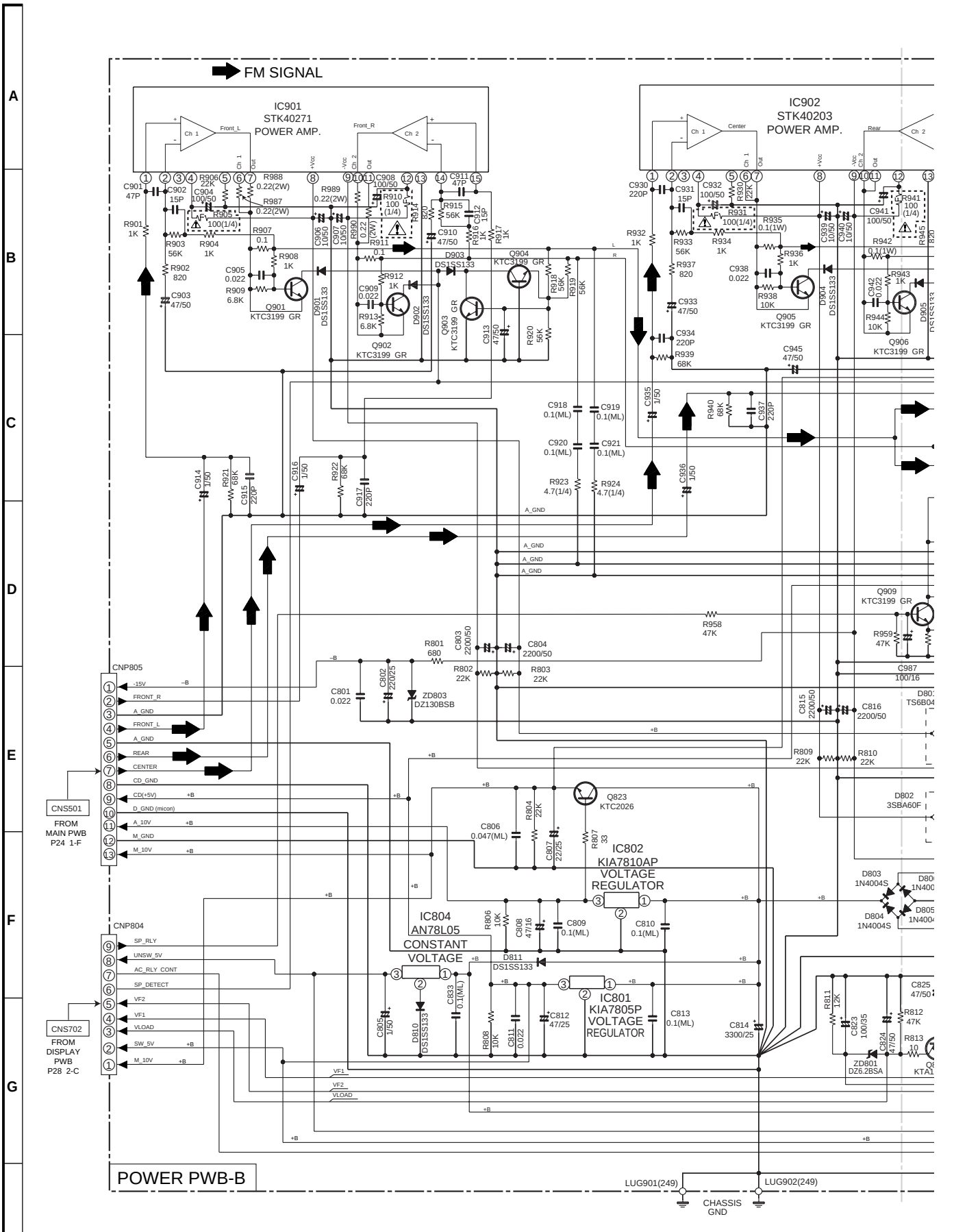
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 28 SCHEMATIC DIAGRAM (9/13)



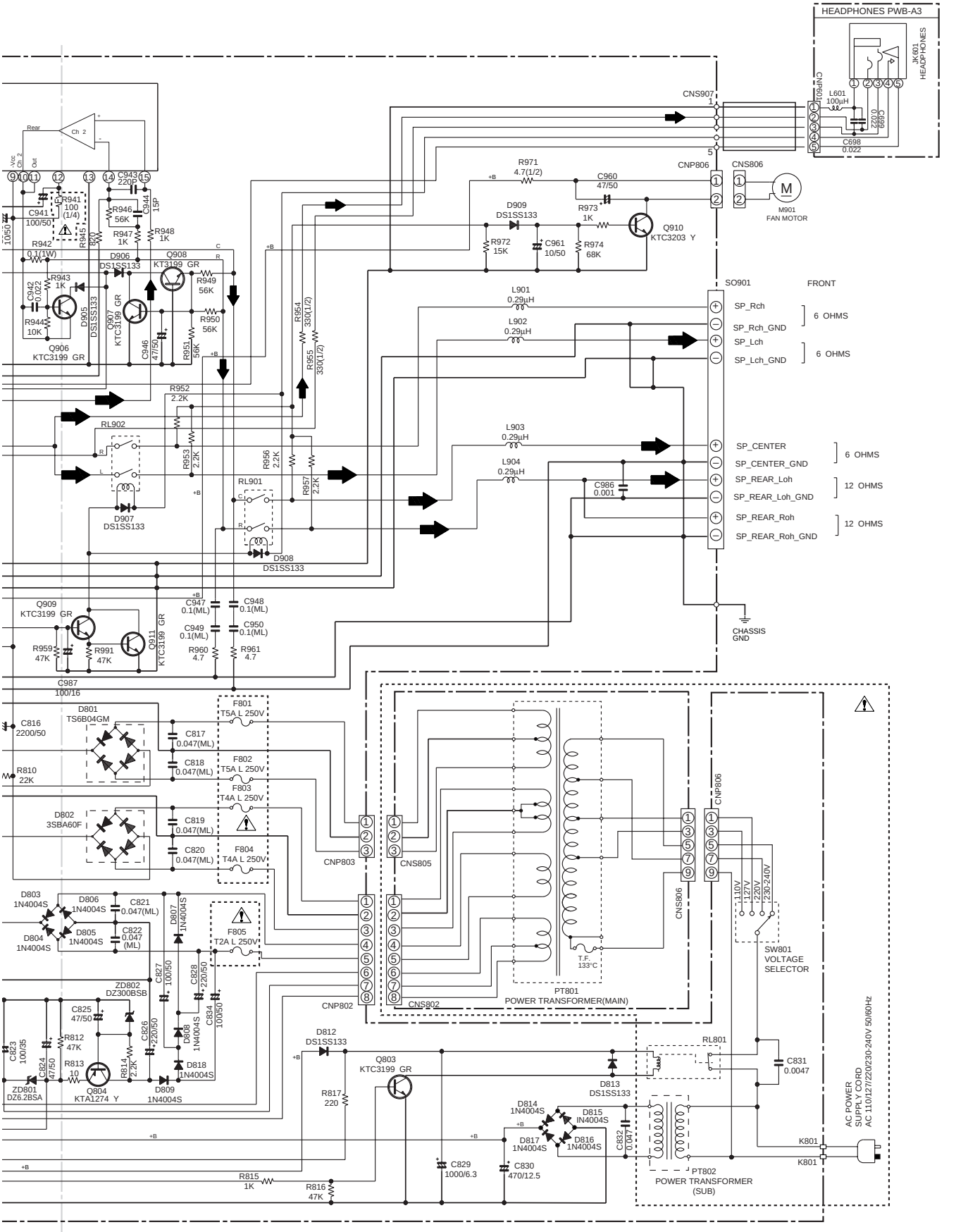
7	8	9	10	11	12

Figure 29 SCHEMATIC DIAGRAM (10/13)



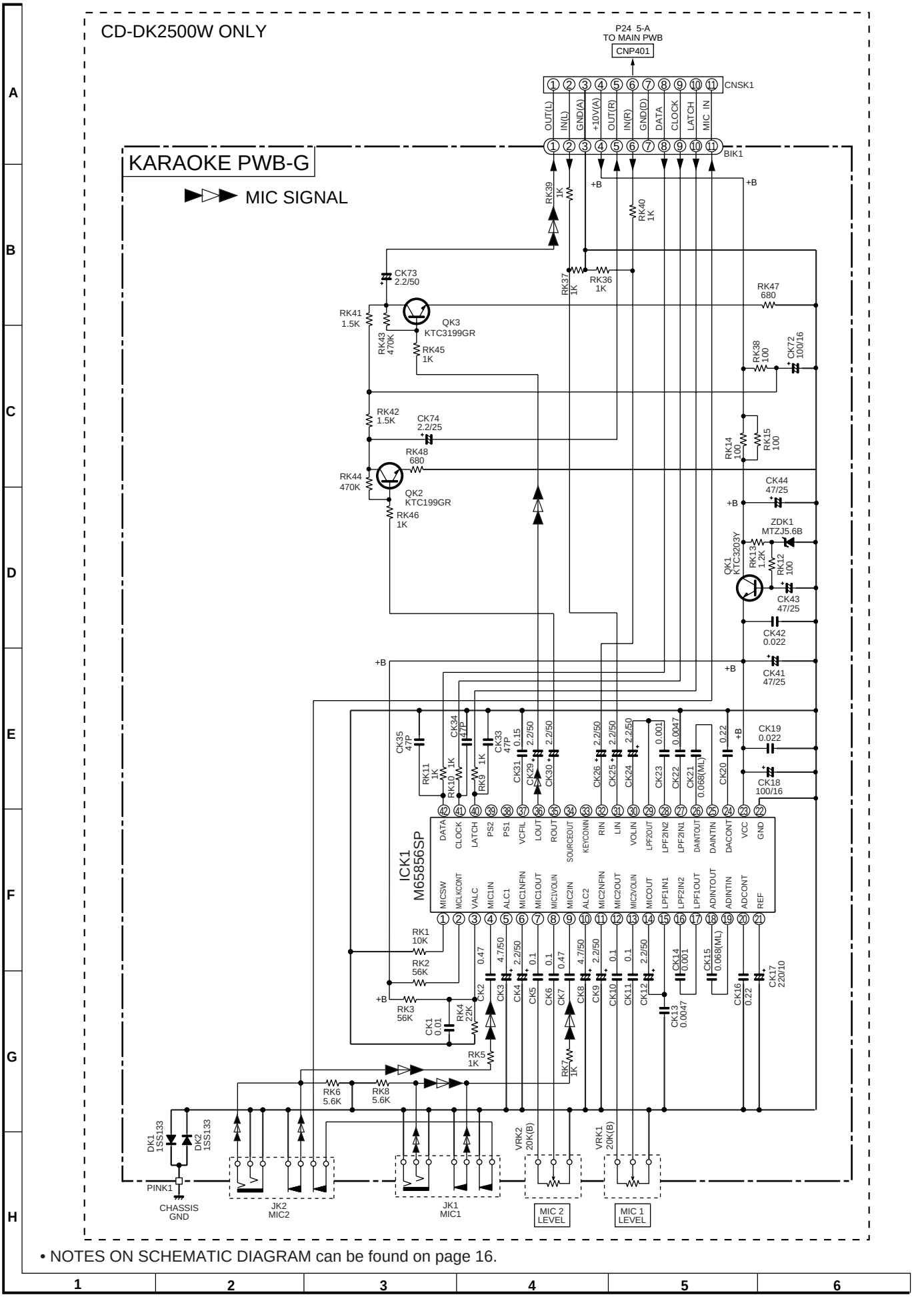
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 30 SCHEMATIC DIAGRAM (11/13)



7	8	9	10	11	12

Figure 31 SCHEMATIC DIAGRAM (12/13)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 32 SCHEMATIC DIAGRAM (13/13)

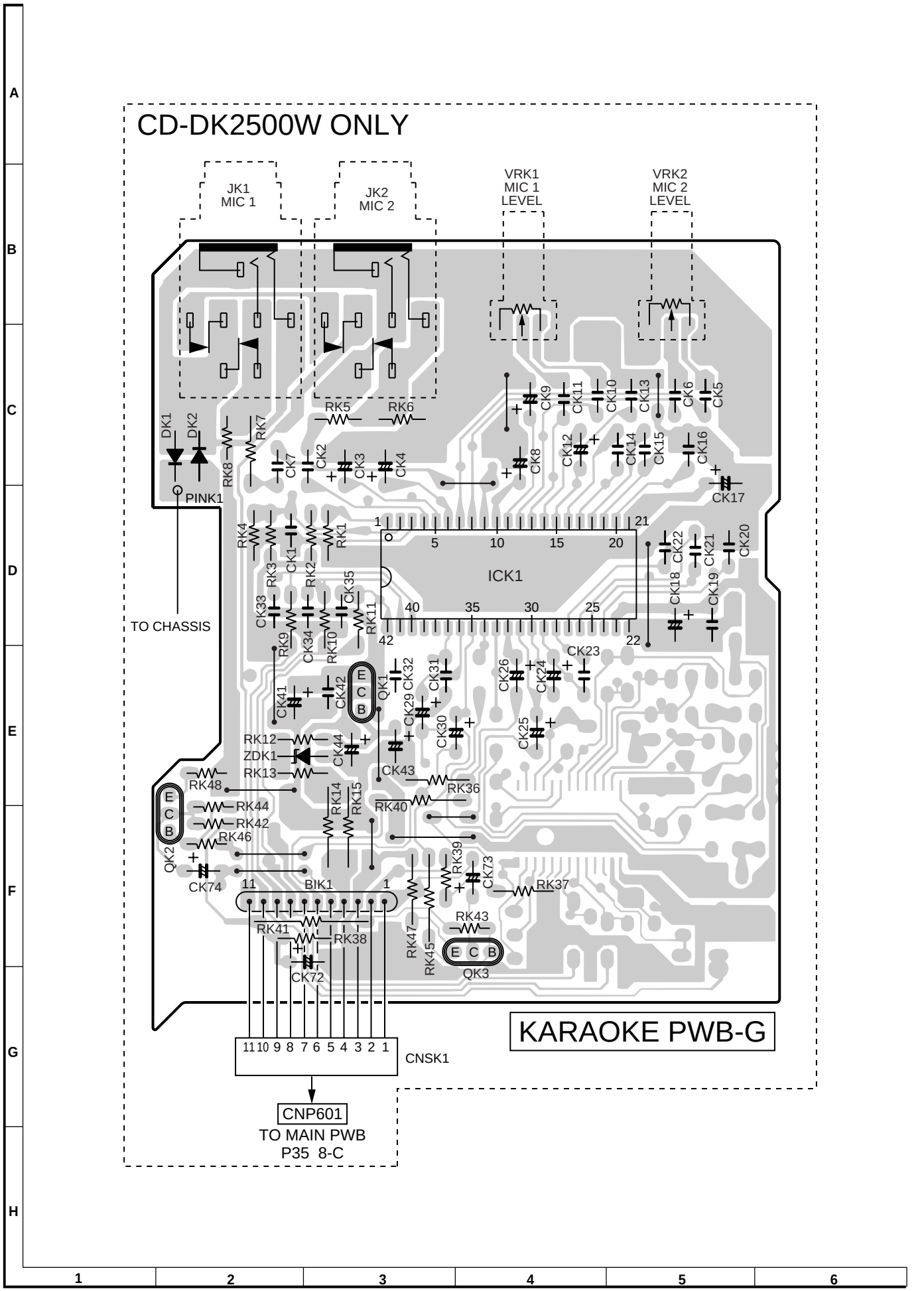


Figure 33 WIRING SIDE OF P.W.BOARD (1/9)

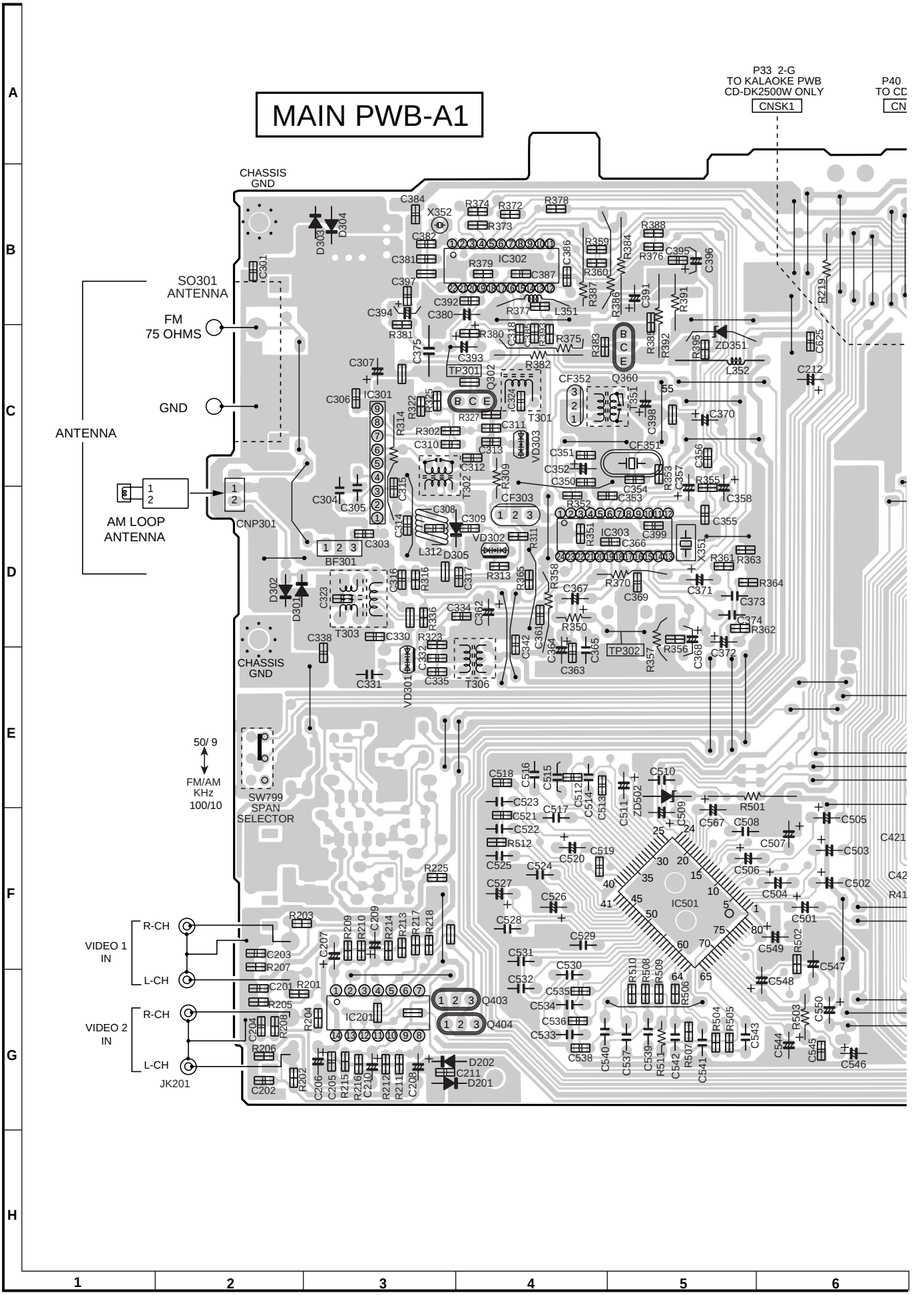
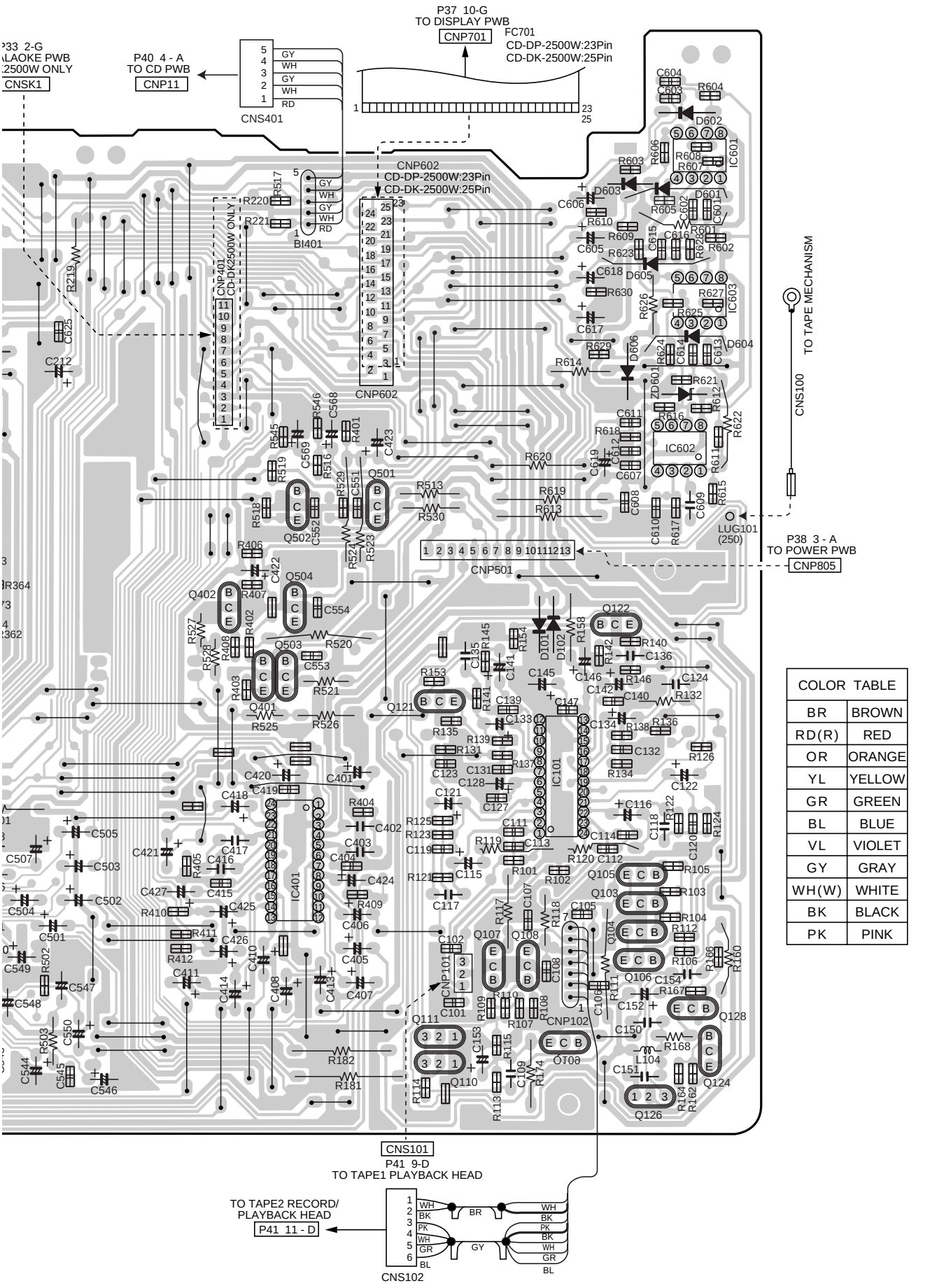


Figure 34 WIRING SIDE OF P.W.BOARD (2/9)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 35 WIRING SIDE OF P.W.BOARD (3/9)

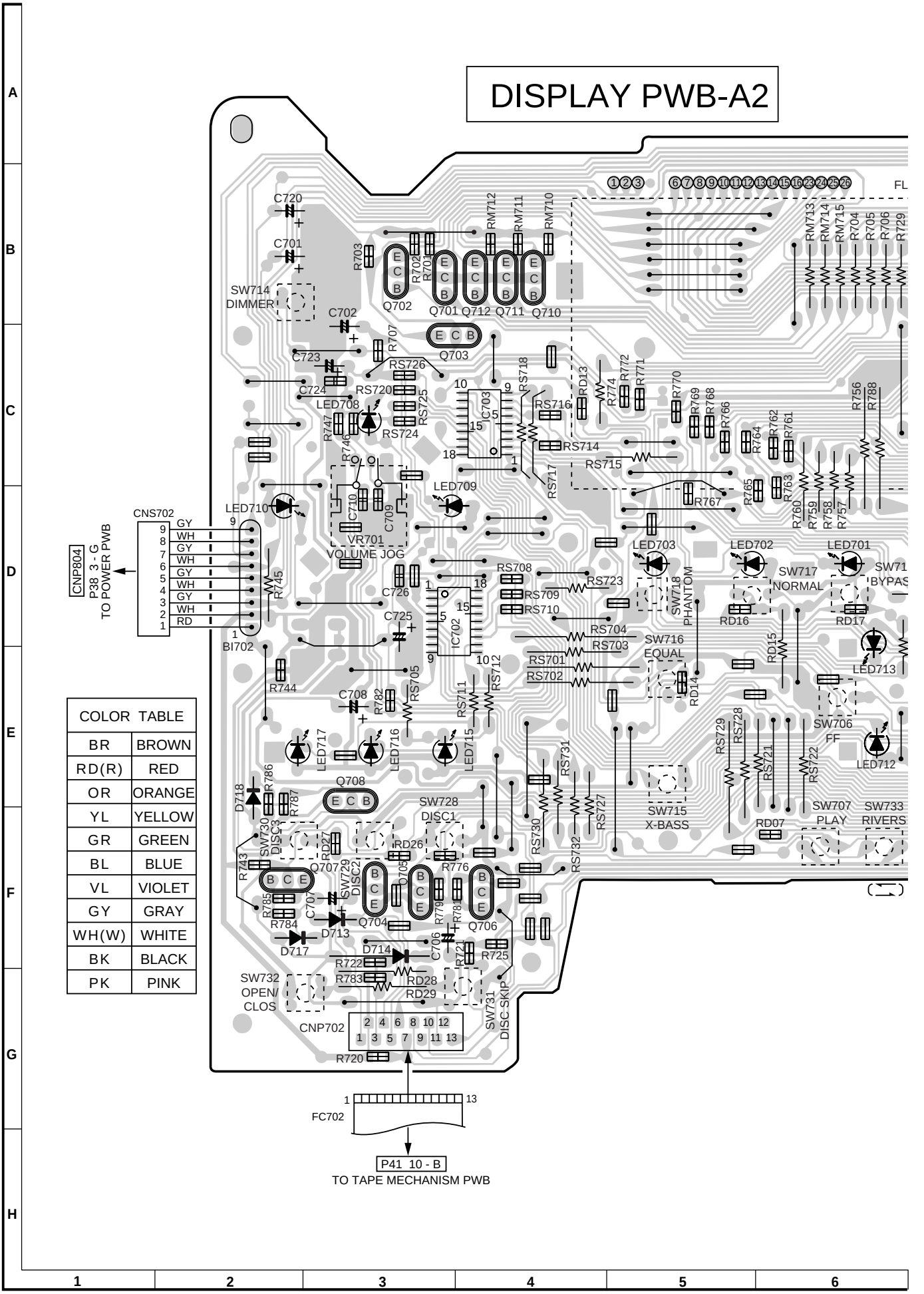
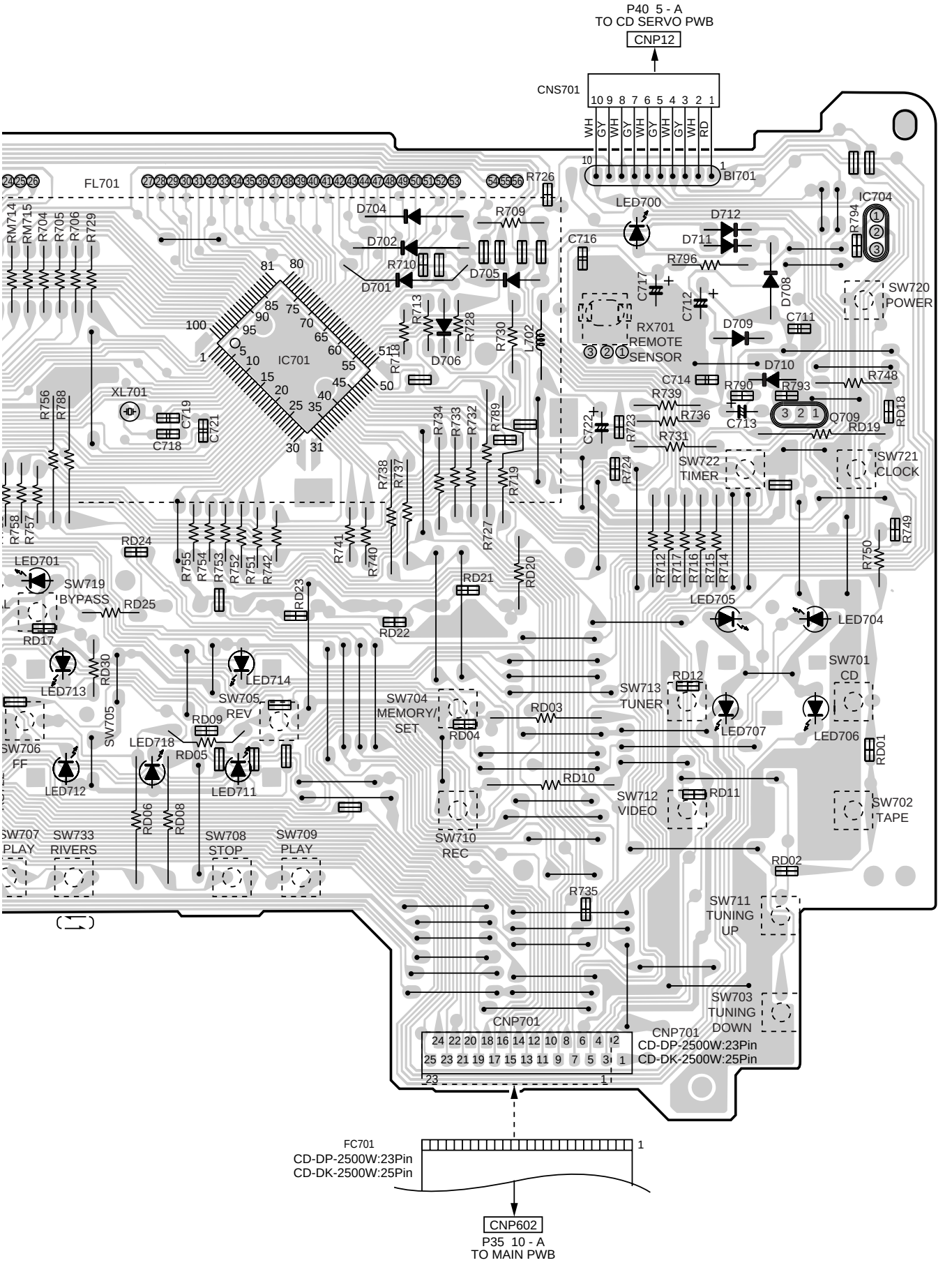


Figure 36 WIRING SIDE OF P.W.BOARD (4/9)



7	8	9	10	11	12

Figure 37 WIRING SIDE OF P.W.BOARD (5/9)

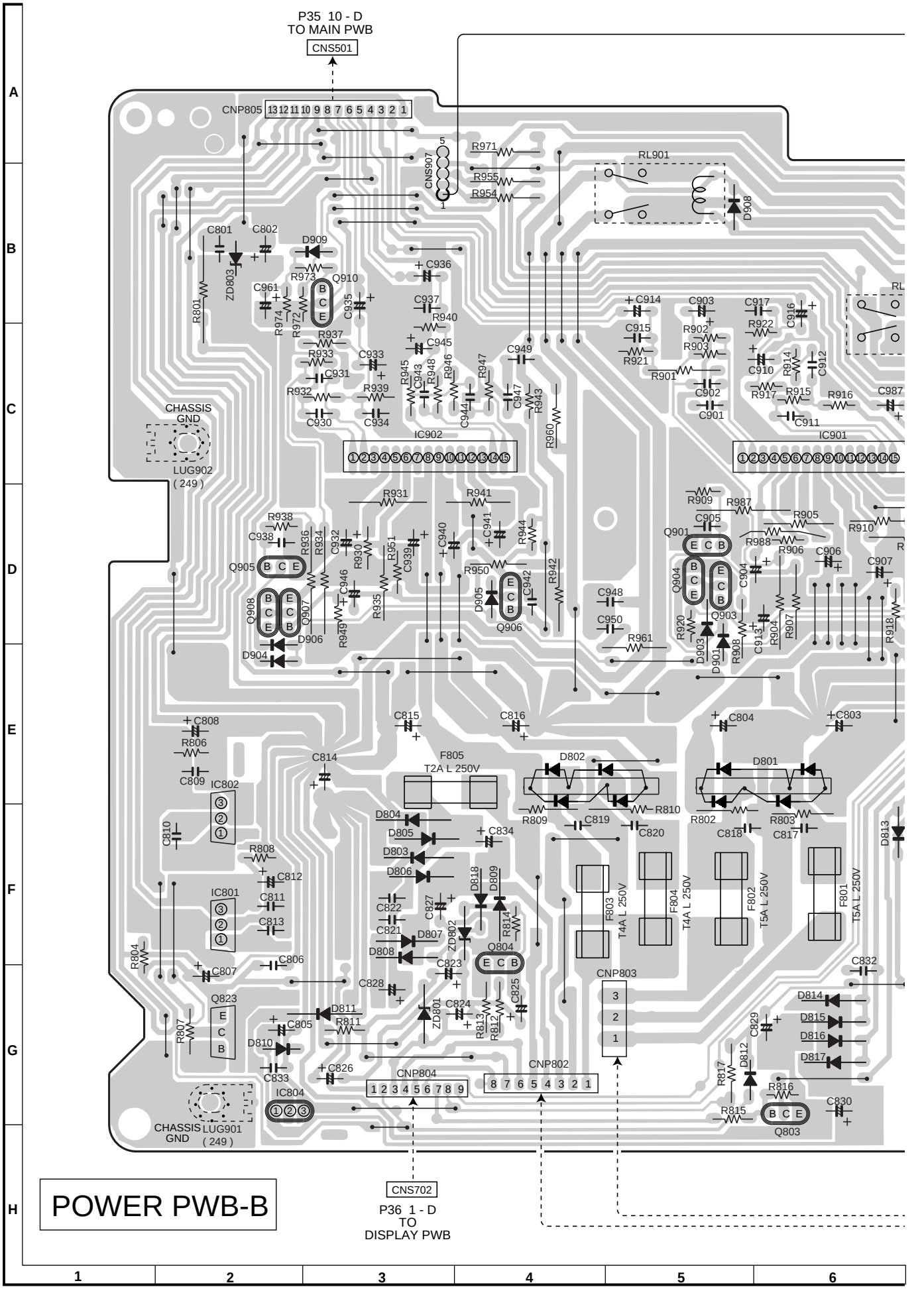
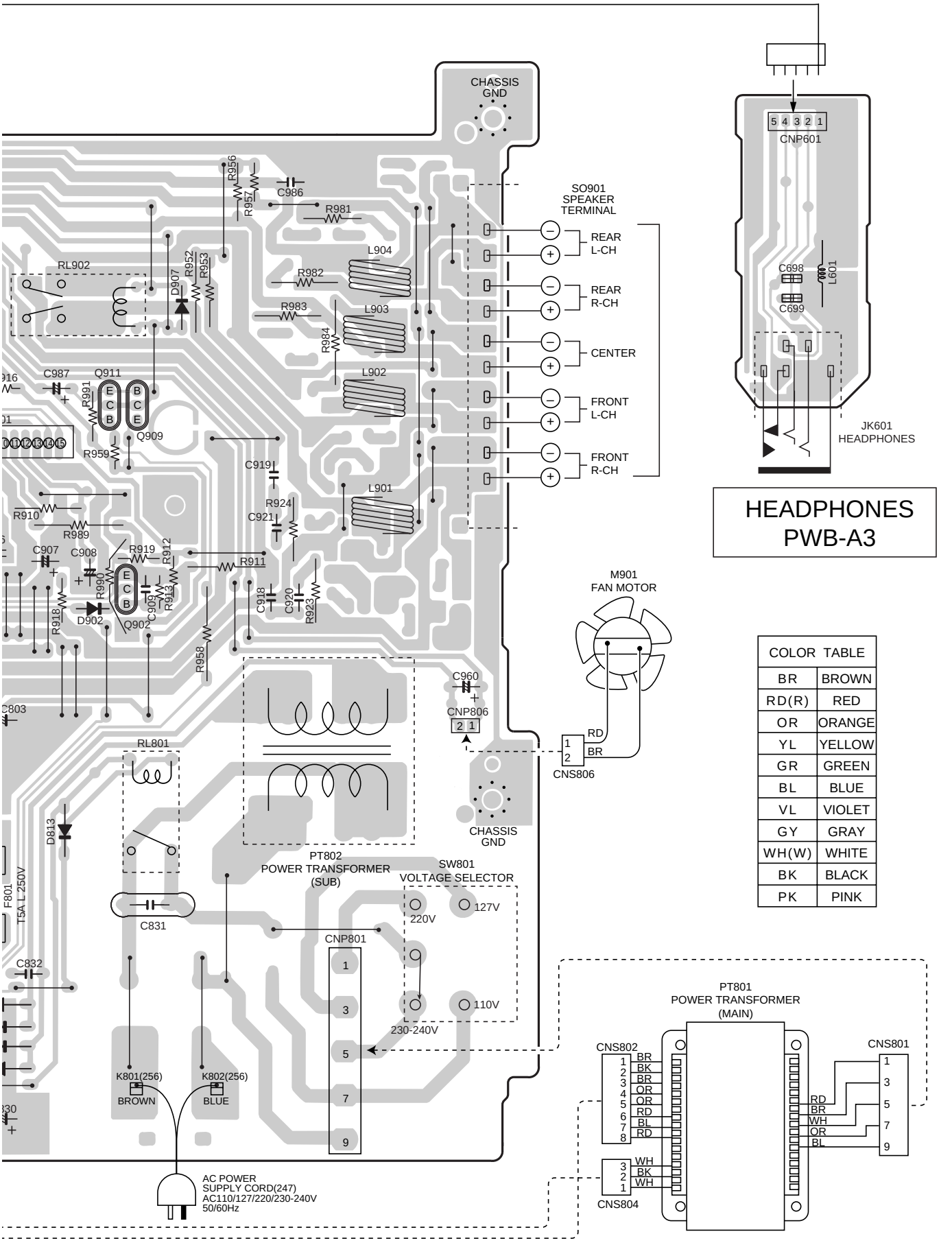


Figure 38 WIRING SIDE OF P.W.BOARD (6/9)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 39 WIRING SIDE OF P.W.BOARD (7/9)

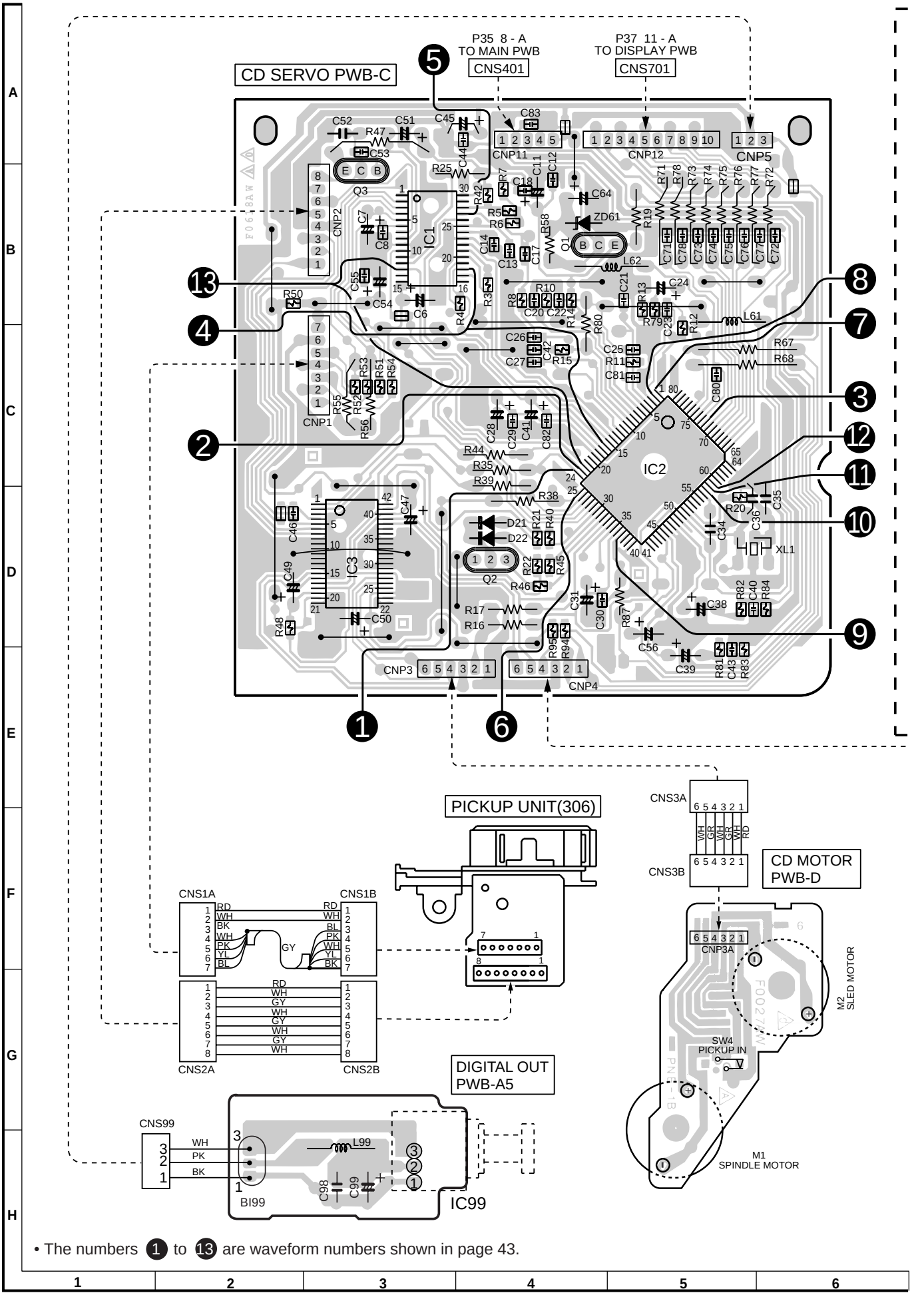
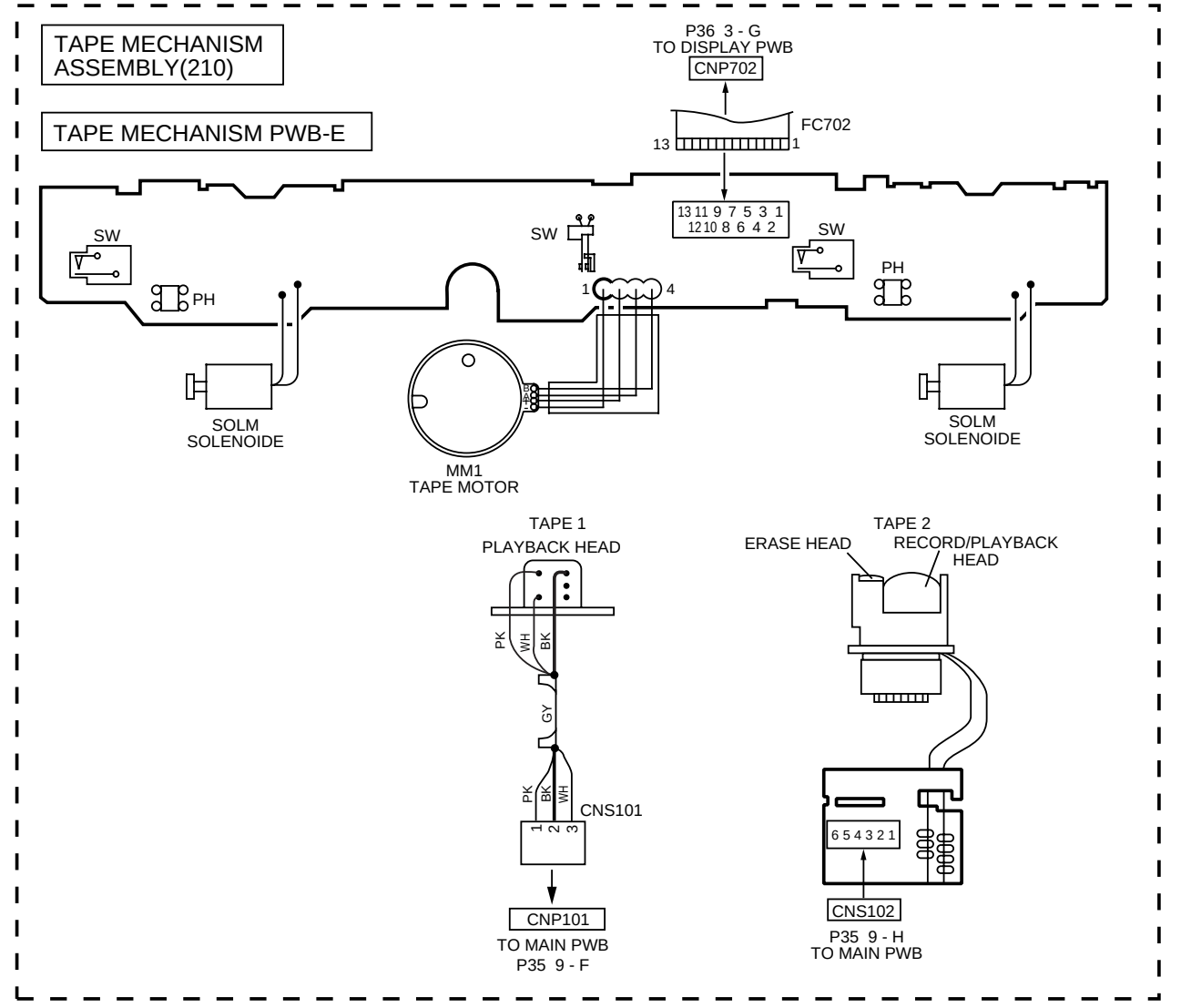
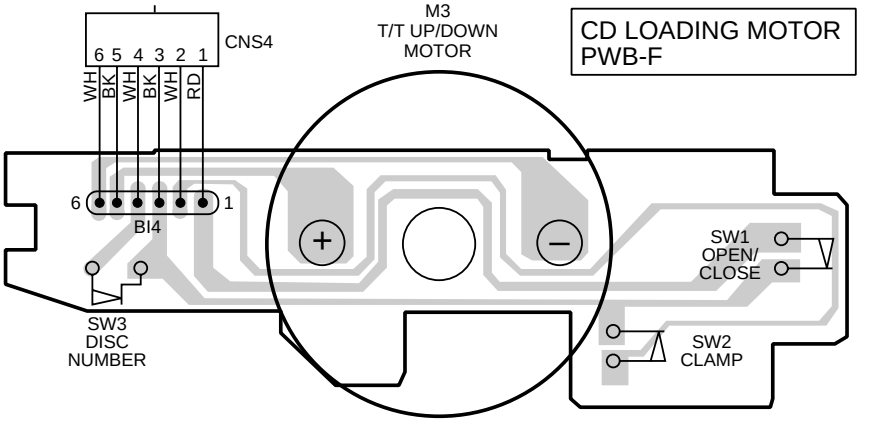


Figure 40 WIRING SIDE OF P.W.BOARD (8/9)





COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 41 WIRING SIDE OF P.W.BOARD (9/9)

VOLTAGE

IC1	
PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.6V
4	1.6V
5	1.6V
6	1.6V
7	0V
8	2.6V
9	0V
10	0V
11	0V
12	3.3V
13	1.6V
14	1.6V
15	1.6V
16	0V
17	0V
18	1.6V
19	1.6V
20	1.6V
21	1.6V
22	1.6V
23	0V
24	1.6V
25	0V
26	0V
27	0V
28	1.6V
29	1.6V
30	3.3V

IC3	
PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.8V
4	2.1V
5	2.1V
6	2.1V
7	2.1V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	2.1V
16	2.1V
17	1.6V
18	4.9V
19	3.5V
20	1.6V
21	0V
22	0V
23	4.9V
24	4.9V
25	1.6V
26	2.1V
27	2.1V
28	1.9V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	4.2V
37	0V
38	2.1V
39	2.1V
40	4.9V
41	2.1V
42	2.1V

IC2	
PIN NO.	VOLTAGE
1	0.7V
2	0V
3	0V
4	0V
5	3.3V
6	2.4V
7	0V
8	0V
9	1.6V
10	0V
11	4.7V
12	1.7V
13	0V
14	1.6V
15	1.6V
16	1.6V
17	1.6V
18	3.3V
19	0V
20	1.6V
21	1.6V
22	1.6V
23	1.6V
24	1.6V
25	1.6V
26	1.6V
27	1.6V
28	0V
29	0V
30	2.1V
31	2.1V
32	0V
33	3.3V
34	3.5V
35	3.3V
36	3.3V
37	3.3V
38	1.6V
39	1.6V
40	0V
41	0V
42	3.3V
43	3.3V
44	3.0V
45	1.5V
46	0V
47	0V
48	1.5V
49	3.0V
50	3.3V
51	1.8V
52	3.0V
53	0V
54	0V
55	0V
56	0V
57	1.7V
58	3.3V
59	0V
60	3.0V
61	1.6V
62	0V
63	2.4V
64	0V
65	0V
66	0V
67	0V
68	4.8V
69	4.9V
70	4.9V
71	4.6V
72	0V
73	4.9V
74	0V
75	0V
76	0V
77	3.2V
78	0V
79	0V
80	3.4V

IC101	
PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	0.5V (0.5V)
4	1.9V (1.9V)
5	0V (0V)
6	0V (0V)
7	0V (0V)
8	0.6V (0.6V)
9	3.3V (3.3V)
10	3.3V (3.3V)
11	0V (0V)
12	0V (0V)
13	6.7V (6.7V)
14	4.0V (4.0V)
15	0V (0V)
16	3.3V (3.3V)
17	0.6V (0.6V)
18	0V (0V)
19	0V (0V)
20	0V (0V)
21	1.9V (1.9V)
22	0.5V (0.5V)
23	0V (0V)
24	0V (0V)

IC301	
PIN NO.	VOLTAGE
1	0.8V (0V)
2	1.5V (0V)
3	3.6V (0.4V)
4	1.5V (0V)
5	0V (0V)
6	3.6V (0.4V)
7	2.8V (0.2V)
8	3.5V (0.3V)
9	3.6V (0.3V)

IC302	
PIN NO.	VOLTAGE
1	2.4V (2.4V)
2	0V (0V)
3	0V (0V)
4	0V (0V)
5	4.6V (4.7V)
6	4.8V (4.9V)
7	0.1V (9.9V)
8	4.2V (0V)
9	3.3V (0V)
10	3.4V (0V)
11	4.6V (4.9V)
12	2.2V (0V)
13	4.6V (4.9V)
14	0V (0V)
15	0V (2.4V)
16	2.3V (0V)
17	4.6V (4.9V)
18	0.8V (4.9V)
19	0.8V (4.9V)
20	1.1V (0V)
21	0V (0V)
22	2.5V (3.0V)

IC602	
PIN NO.	VOLTAGE
1	13.1V
2	13.1V
3	1.3V
4	0V
5	1.3V
6	13.2V
7	13.1V
8	18.3V

IC303	
PIN NO.	VOLTAGE
1	2.1V (2.1V)
2	4.5V (4.5V)
3	2.1V (2.1V)
4	2.1V (2.1V)
5	0V (0V)
6	4.6V (4.9V)
7	4.6V 4.9V)
8	2.4V (3.2V)
9	4.5V (4.8V)
10	3.9V (0V)
11	3.3V (1.6V)
12	3.3V (1.1V)
13	3.5V (2.0V)
14	1.2V (1.2V)
15	1.2V (1.2V)
16	2.0V (2.0V)
17	2.7V (0V)
18	2.1V (0.9V)
19	0V (1.9V)
20	0.3V (0.9V)
21	2.6V (2.0V)
22	2.6V (2.0V)
23	4.5V (4.8V)
24	3.0V (3.3V)

IC601	
PIN NO.	VOLTAGE
1	13.0V
2	130V
3	12.8V
4	0V
5	12.8V
6	13.0V
7	13.0V
8	18.3V

IC603	
PIN NO.	VOLTAGE
1	13.1V
2	13.1V
3	1.4V
4	0V
5	1.4V
6	13.1V
7	13.1V
8	18.3V

IC702	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	7.8V
6	7.8V
7	7.8V
8	7.8V
9	12.3V
10	0V
11	0V
12	0V
13	1.0V
14	1.9V
15	1.6V
16	1.6V
17	0V
18	0.5V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.6V	51	4.9V
2	4.6V	52	0V
3	4.6V	53	0V
4	0V	54	4.9V
5	0V	55	4.9V
6	0V	56	4.9V
7	4.8V	57	4.9V
8	0V	58	0V
9	4.8V	59	–34.3V
10	4.7V	60	–20.1V
11	4.9V	61	–16.4V
12	2.6V	62	–12.2V
13	0V	63	–16.5V
14	0V	64	–14.2V
15	4.8V	65	–31.9V
16	4.6V	66	–29.7V
17	4.6V	67	–31.9V
18	0V	68	–29.7V
19	4.9V	69	–18.5V
20	0V	70	–29.7V
21	0V	71	–27.5V
22	0V	72	–29.8V
23	0V	73	–18.8V
24	4.8V	74	–18.8V
25	0V	75	–27.7V
26	0V	76	–23.4V
27	0V	77	23.1V
28	0V	78	20.9V
29	0V	79	–34.1V
30	0V	80	–18.9V
31	4.9V	81	–28.7V
32	5.0V	82	–26.0V
33	4.9V	83	–29.8V
34	4.6V	84	–27.5V
35	6.0V	85	–29.7V
36	4.9V	86	–20.6V
37	4.9V	87	–20.5V
38	0V	88	–31.9V
39	4.8V	89	–31.8V
40	0V	90	–31.8V
41	1.9V	91	–32.0V
42	9.1V	92	–31.9V
43	9.1V	93	–31.9V
44	0V	94	–31.9V
45	3.6V	95	–31.9V
46	4.6V	96	–31.9V
47	4.5V	97	–31.9V
48	4.5V	98	–31.9V
49	4.9V	99	–31.9V
50	3.0V	100	–31.9V

IC401	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	5.0V
5	5.0V
6	5.0V
7	5.0V
8	5.0V
9	5.0V
10	5.0V
11	5.0V
12	5.0V
13	5.0V
14	5.0V
15	5.0V
16	5.0V
17	5.0V
18	5.0V
19	5.0V
20	5.0V
21	5.0V
22	5.0V
23	10.0V
24	0V

IC801	
PIN NO.	VOLTAGE
1	17.3V
2	0V
3	5V

Q823	
PIN NO.	VOLTAGE
1	16.6V
2	5.6V
3	0V

IC802	
PIN NO.	VOLTAGE
1	5V
2	5V
3	5V
4	0V
5	5V
6	5V
7	5V
8	10.0V

IC902	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	25.7V
5	–25.7V
6	0V
7	0V
8	26.9V
9	–26.9V
10	0V
11	0V
12	–25.6V
13	0V
14	–0.1V
15	–0.1V

IC703	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0V
6	7.8V
7	7.8V
8	7.8V
9	7.8V
10	7.8V
11	0V
12	2.8V
13	0.5V
14	1.3V
15	1.3V
16	0V
17	0V
18	5.0V

IC704	
PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V

IC804	
PIN NO.	VOLTAGE
1	18.2V
2	0V
3	5.0V

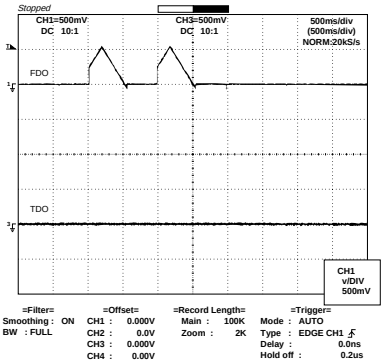
IC201	
PIN NO.	VOLTAGE
1	4.3V
2	4.3V
3	4.3V
4	4.3V
5	8.6V
6	0V
7	0V
8	4.3V
9	4.3V
10	4.3V
11	4.3V
12	0V
13	8.6V
14	8.6V

IC501	
PIN NO.	VOLTAGE
1	4.9V
2	4.9V
3	3.9V
4	2.7V
5	4.9V
6	4.9V
7	4.9V
8	4.9V
9	3.9V
10	2.7V
11	4.7V
12	4.8V
13	2.7V
14	3.9V
15	0V
16	0V
17	0V
18	0V
19	4.8V
20	0V
21	4.8V
22	4.6V
23	0V
24	0V
25	0V
26	4.7V
27	2.8V
28	2.6V
29	2.6V
30	2.6V
31	2.6V
32	2.6V
33	0.6V
34	0.6V
35	2.6V
36	2.6V
37	2.6V
38	2.6V
39	2.6V
40	0V
41	4.6V
42	4.6V
43	4.6V
44	4.6V
45	0V
46	4.6V
47	4.6V
48	4.6V
49	4.6V
50	4.5V
51	4.5V
52	4.2V
53	4.6V
54	4.6V
55	4.3V
56	4.3V
57	4.7V
58	4.5V
59	4.2V
60	4.4V
61	4.6V
62	4.4V
63	4.4V
64	4.4V
65	4.4V
66	4.4V
67	4.4V
68	2.8V
69	9.9V
70	4.3V
71	1.3V
72	0V
73	0V
74	4.3V
75	4.4V
76	0V
77	0V
78	0V
79	0V
80	0V

WAVEFORMS OF CD CIRCUIT

1 IC2 (24)

2 IC2 (23)

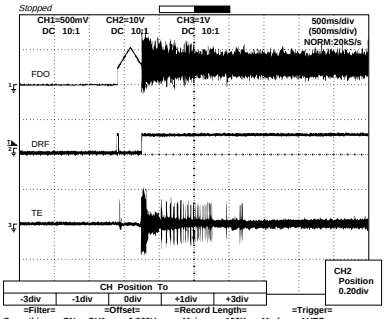


=Filter=	=Offset=		=Record Length=		=Trigger=	
Smoothing : ON	CH1 :	0.000V	Main :	100K	Mode :	AUTO
BW : FULL	CH2 :	0.0V	Zoom :	2K	Type :	EDGE CH1
	CH3 :	0.000V			Delay :	0.0ns
	CH4 :	0.00V			Hold off :	0.2us

1 IC2 (24)

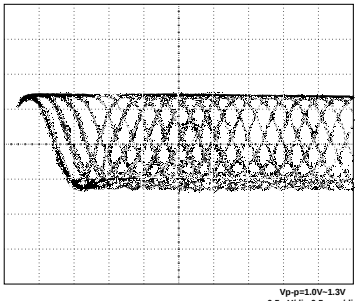
3 IC2 (72)

4 IC1 (18), IC2 (16)



=Filter=	=Offset=		=Record Length=		=Trigger=	
Smoothing : ON	CH1 :	0.000V	Main :	100K	Mode :	AUTO
BW : FULL	CH2 :	0.0V	Zoom :	2K	Type :	EDGE CH1
	CH3 :	0.00V			Delay :	0.0ns
	CH4 :	0.00V			Hold off :	0.2us

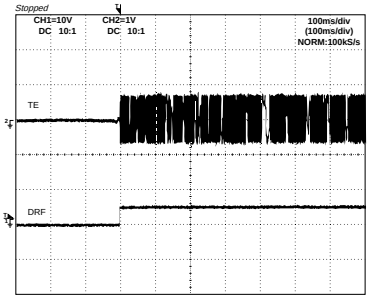
5 IC1 (27)



Vp-p=1.0V~1.3V
0.5mV/div,0.5μsec/div

4 IC1 (18), IC2 (16)

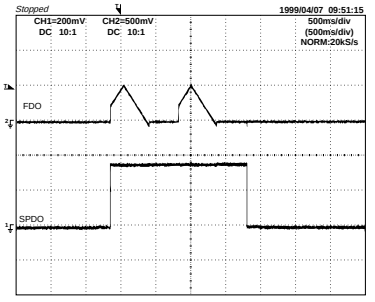
3 IC2 (72)



=Filter=	=Offset=		=Record Length=		=Trigger=	
Smoothing : ON	CH1 :	0.0V	Main :	100K	Mode :	NORMAL
BW : FULL	CH2 :	0.00V	Zoom :	2K	Type :	EDGE CH1
	CH3 :	0.00V			Delay :	2.924ms
	CH4 :	0.00V			Hold off :	0.2us

1 IC2 (24)

6 IC2 (25)

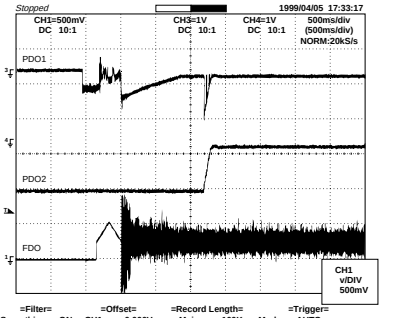


=Filter=	=Offset=		=Record Length=		=Trigger=	
Smoothing : ON	CH1 :	0.000V	Main :	100K	Mode :	NORMAL
BW : FULL	CH2 :	0.000V	Zoom :	2K	Type :	EDGE CH2
	CH3 :	0.00V			Delay :	2.924ms
	CH4 :	0.00V			Hold off :	0.2us

7 IC2 (1)

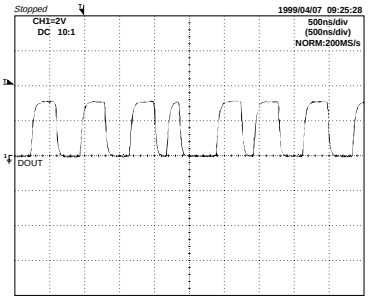
8 IC2 (2)

1 IC2 (24)



=Filter=	=Offset=		=Record Length=		=Trigger=	
Smoothing : ON	CH1 :	0.000V	Main :	100K	Mode :	AUTO
BW : FULL	CH2 :	0.0V	Zoom :	2K	Type :	EDGE CH2
	CH3 :	0.00V			Delay :	0.0ns
	CH4 :	0.00V			Hold off :	0.2us

9 IC2 (37)

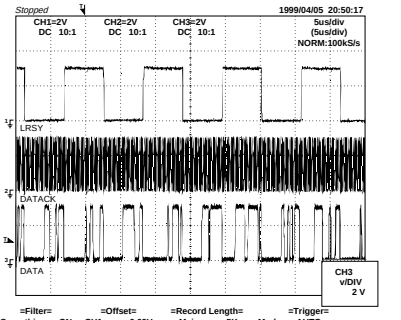


=Filter=	=Offset=		=Record Length=		=Trigger=	
Smoothing : ON	CH1 :	0.00V	Main :	1K	Mode :	NORMAL
BW : FULL	CH2 :	0.00V	Zoom :	100	Type :	EDGE CH1
	CH3 :	0.00V			Delay :	2.887ms
	CH4 :	0.00V			Hold off :	0.2us

10 IC2 (57)

11 IC2 (58)

12 IC2 (59)

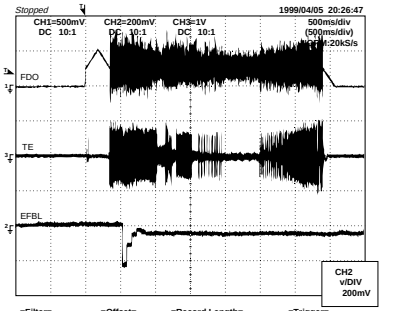


=Filter=	=Offset=		=Record Length=		=Trigger=	
Smoothing : ON	CH1 :	0.00V	Main :	5K	Mode :	AUTO
BW : FULL	CH2 :	0.00V	Zoom :	100	Type :	EDGE CH3
	CH3 :	0.00V			Delay :	0.0ns
	CH4 :	0.00V			Hold off :	0.2us

1 IC2 (24)

4 IC1 (18), IC2 (16)

13 IC1 (13), IC2 (22)



=Filter=	=Offset=		=Record Length=		=Trigger=	
Smoothing : ON	CH1 :	0.000V	Main :	100K	Mode :	SINGLE
BW : FULL	CH2 :	0.000V	Zoom :	2k	Type :	EDGE CH1
	CH3 :	0.00V			Delay :	0.0ns
	CH4 :	0.00V			Hold off :	0.2us

TROUBLE SHOOTING

When the CD does not function

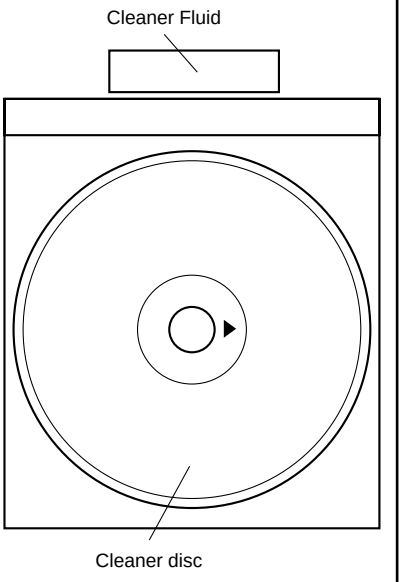
When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.
Remove the cabinet and follow the trouble shooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down,then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to tum, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rines with clean water and seek medical advice.
- The CD cleaner disk must not be used on car CD players or on computer CD ROM drives.
- All rights reserved.Unauthorized duplicating, broadcasting and renting this product is

When a CD cannot be played

1. "E-CD01" is displayed.

(1) Check the power to IC2 (LC78641E), the presence of the clock signal (16.93 MHz) and the status of the RESET terminal (pin 71 on IC2).
(2) Did the pickup move to the PICKUP-IN Switch (SW4) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2. Pressing the CD operation key is accepted, but playback does not occur.

(1) Focus-HF system check
(2) Tracking system check
(3) Spin system check
(4) PLL system check
(5) Others

(1) Focus-HF system check

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

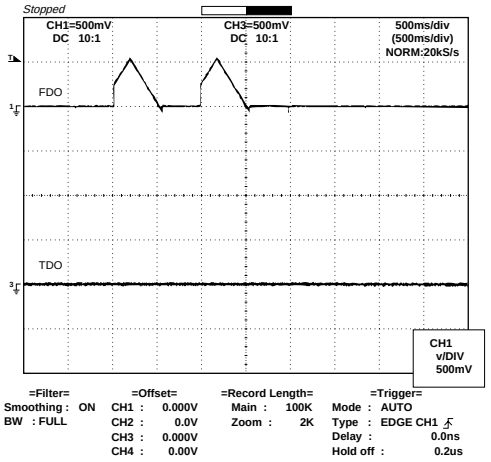


Figure 45-1

1. Did the pickup move to the PICKUP-IN Switch (SW4) position?
   - No → Sled motor (M2)
   - Yes ↓
2. Does the focus (lens) move up and down? (Waveform drawing 45-1).
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit?
   - No → Check the laser diode driver Q3 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating?
   - No → Spindle motor (M1).

When a disc is loaded, start playback operation.

1. Is focus servo activated? (Waveform drawing 45-2)
   - No → Pins 1~11 on IC1
     Check the laser diode driver Q3 peripheral circuit.
     Focus error circuit (pins 20 and 21 on IC1)
   - Yes ↓
2. Does DRF change from "L" to "H"?
   - No → Is the disc rotating?
     - No → Check the spin system.
       If the disc is spinning and a HF waveform is generated, DRF will go H.
     - Yes
   - Yes ↓
3. Is the HF waveform normal? (Waveform drawing 45-3)
   - No → If the level is not normal, check around pins 27~29 on IC1.

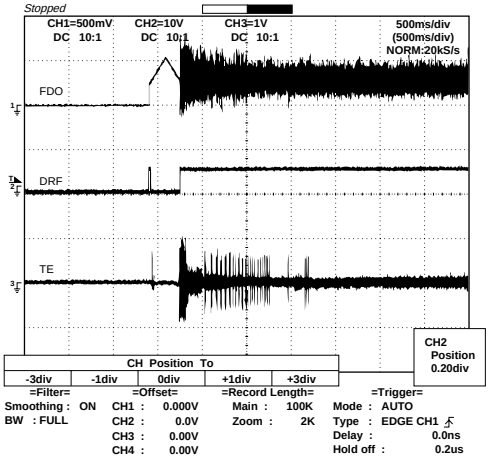


Figure 45-2

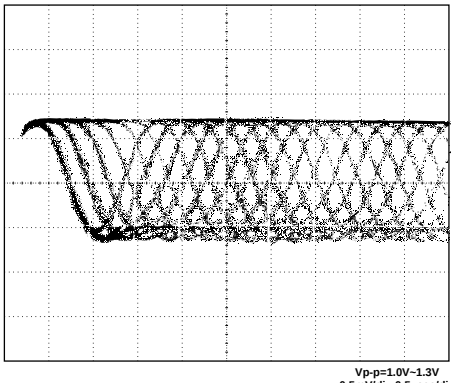


Figure 45-3

(2) Tracking system check

Check the TE waveform at pin 18 on IC1.

If the waveform shown in Figure 46-1 appears and soon after NO DISC appears.
- Yes → The tracking servo is not activated. Check the peripheral circuits at pins 18 and 19 on IC1, pin 23 on IC2, and CNS1A/B.
- No ↓

"Initialization" is possible, but play is not possible.
- Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found. Check the around pin 23 on IC2.
- No ↓

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL system.

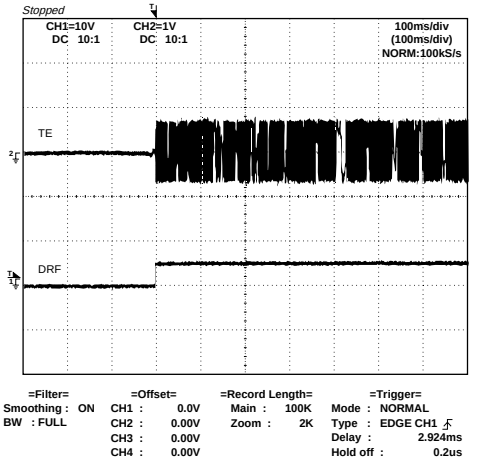

Stopped
CH1=10V DC 10:1
CH2=1V DC 10:1
100ms/div (100ms/div) NORM:100kS/s
TE
DRF
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.0V CH2 : 0.00V CH3 : 0.00V CH4 : 0.00V
=Record Length= Main : 100K Zoom : 2K
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.924ms Hold off : 0.2us

Figure 46-1

(3) Spin system check

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little. (Waveform drawing 46-2)
- Yes → The spin driver circuit is OK.
- No ↓

2. The turntable doesn't rotate. → Check around pin 25 on IC2, pins 15 and 16 on IC3, and CNS3A/B.

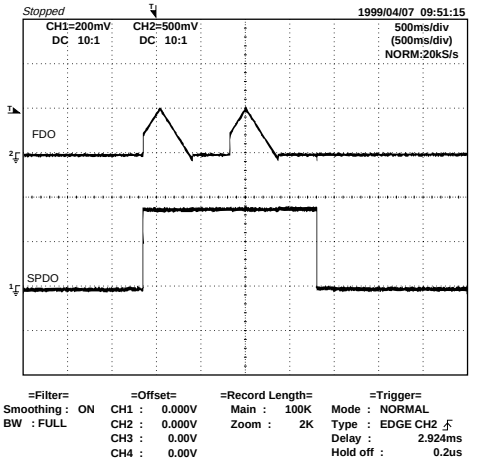

Stopped
1999/04/07 09:51:15
CH1=200mV DC 10:1
CH2=500mV DC 10:1
500ms/div (500ms/div) NORM:20kS/s
FDO
SPDO
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000V CH2 : 0.000V CH3 : 0.00V CH4 : 0.00V
=Record Length= Main : 100K Zoom : 2K
=Trigger= Mode : NORMAL Type : EDGE CH2 Delay : 2.924ms Hold off : 0.2us

Figure 46-2

(4) PLL system check

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDO waveform. (Figure 47-1)

↓

Check around pins 1~6 on IC2.

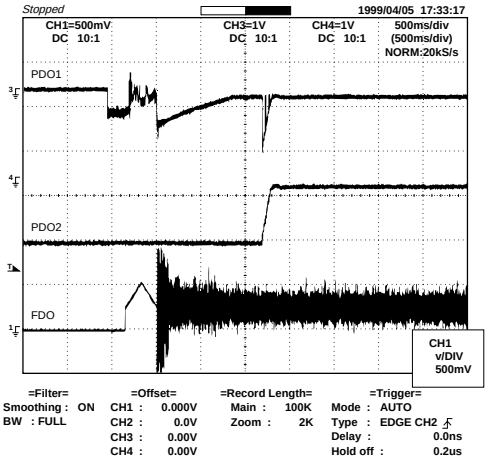

Stopped
1999/04/05 17:33:17
CH1=500mV DC 10:1
CH3=1V DC 10:1
CH4=1V DC 10:1
500ms/div (500ms/div) NORM:20kS/s
PDO1
PDO2
FDO
CH1 v/DIV 500mV
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000V CH2 : 0.0V CH3 : 0.00V CH4 : 0.00V
=Record Length= Main : 100K Zoom : 2K
=Trigger= Mode : AUTO Type : EDGE CH2 Delay : 0.0ns Hold off : 0.2us

Figure 47-1

(5) Others

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 35 (C2F) on IC2 "L"?

No → There are too many error flags on a damaged disc which makes error correction impossible.

↓

Check again using a known good disc.

Yes

↓

1. When playing at normal speed
   Check the peripheral circuit at pin 37 (DOUT) on IC2 and the waveform (Figure 47-2).

↓

If both 1. and 2. are OK.

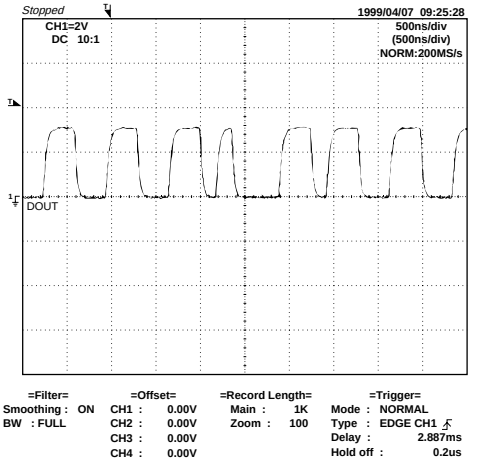
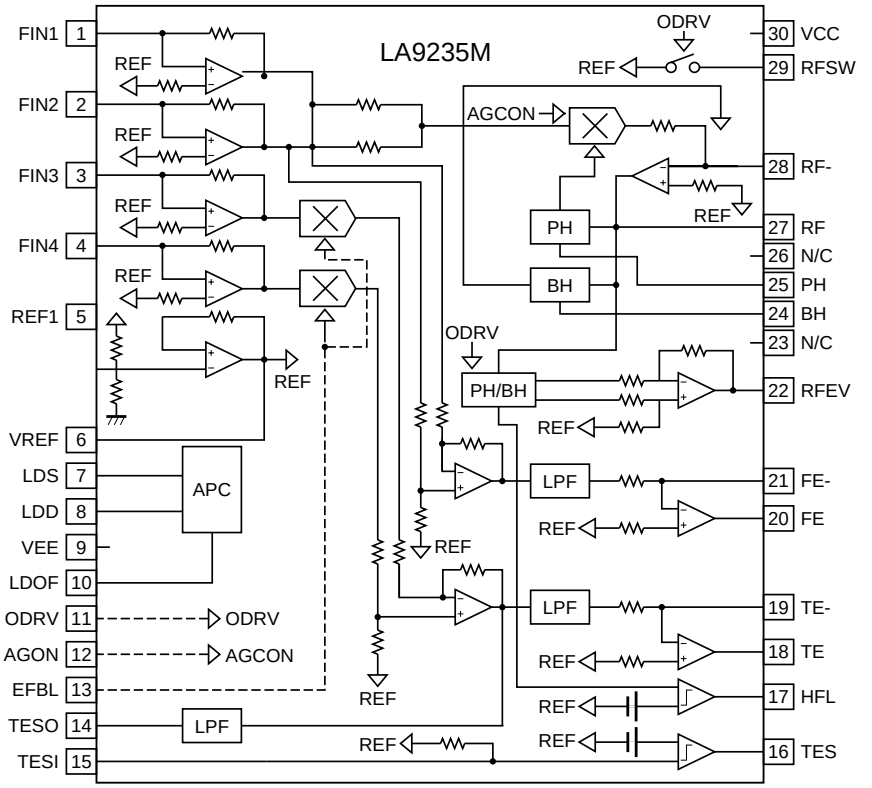

Stopped
1999/04/07 09:25:28
CH1=2V DC 10:1
500ns/div (500ns/div) NORM:200MS/s
DOUT
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00V CH2 : 0.00V CH3 : 0.00V CH4 : 0.00V
=Record Length= Main : 1K Zoom : 100
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.887ms Hold off : 0.2us

Figure 47-2

FUNCTION TABLE OF IC

IC1 VHiLA9235M/-1: Servo Amp. (LA9235M)



IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E)

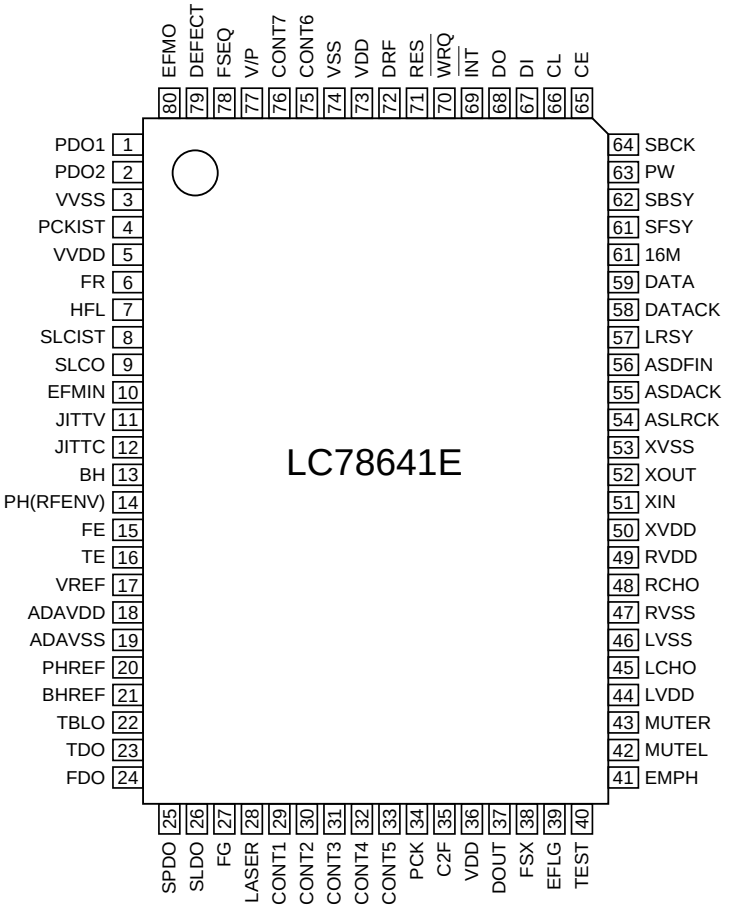


Figure 48 BLOCK DIAGRAM OF IC

IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function		
1	PDO1	Output	–	For PULL	Phase-comparison output terminal for built-in VOC control.	
2	PDO2	Output	–		Phase-comparison output terminal for built-in VOC control. Rough servo : OFF, phase servo : ON.	
3	VVSS	–	–		Ground terminal for built-in VCO.	
4	PCKIST	AI	–		Resistor terminal for setting the PDO output current.	
5	VVDD	–	–		Power terminal for built-in VCO.	
6	FR	AI	–		Resistor terminal for setting the VCO frequency range.	
7	HFL	Input	–	Mirror detection signal input terminal.		
8	SLCIST	AI	–	For slice level control	Resistance connection terminal for current adjustment of SLCO output.	
9	SLCO	Output	–		Control output.	
10	EFMIN	Input	–		EFM signal input terminal.	
11*	JITTV	Output	Unfixed	Jitter detection/monitor terminal.		
12	JITTC	Output	–	Jitter detection/adjustment terminal.		
13	BH	Input	–	BH signal input terminal. A/D input.		
14	PH(RFENV)	Input	–	PH signal or RFENV signal input terminal. A/D input.		
15	FE	Input	–	FE signal input terminal. A/D input.		
16	TE	Input	–	TE signal input terminal. A/D input.		
17	VREF	Input	–	VREF signal input terminal. A/D input.		
18	ADAVDD	–	–	AD for servo, D/A power terminal.		
19	ADAVSS	–	–	AD for servo, D/A ground terminal.		
20*	PHREF	Output	(1/2VDD)	PH reference output terminal. D/A output.		
21*	BHREF	Output	(1/2VDD)	BH reference output terminal. D/A output.		
22	TBLO	Output	(1/2VDD)	Output terminal for tracking balance. D/A output.		
23	TDO	Output	(1/2VDD)	Output terminal for tracking control. D/A output.		
24	FDO	Output	(1/2VDD)	Output terminal for focus control. D/A output.		
25	SPDO	Output	(1/2VDD)	Output terminal for spindle control. D/A output.		
26	SLDO	Output	(1/2VDD)	Output terminal for sled control. D/A output.		
27*	FG	Input	–	FG signal input terminal. (When not used,connect to 0V)		
28	LASER	Output	L	LASER ON/OFF control terminal.		
29	CONT1	In/Output	Input mode	General purpose input/output terminal 1.	Controlled with serial data command from microcomputer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.	
30	CONT2	In/Output	Input mode	General purpose input/output terminal 2.		
31	CONT3	In/Output	Input mode	General purpose input/output terminal 3.		
32	CONT4	In/Output	Input mode	General purpose input/output terminal 4.		
33	CONT5	In/Output	Input mode	General purpose input/output terminal 5.		
34*	PCK	Output	H	Clock monitor terminal for EFM data replay. 4.3218MHz as phase clock.		
35*	C2F	Output	H	C2 flag output terminal.		
36	VDD	–	–	Power terminal of digital system.		
37	DOUT	Output	L	Output terminal of digital OUT. (EIAJ format)		
38*	FSX	Output	L	Output terminal of synchronous signal of 7.35kHz divided from quartz oscillation.		
39*	EFLG	Output	L	C1,C2 correct monitor terminal.		
40	TEST	Input	–	Input terminal for test. Surely connected to 0V.		
41*	EMPH	In/Output	Input mode	Emphasis terminal. After resetting, it is configured as an input terminal. It can be controlled from the outside. It is also becomes a emphasis monitor terminal under command control.		
42*	MUTEL	Output	H	Mute output terminal for L channel.		
43*	MUTER	Output	H	Mute output terminal for R channel.		

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	LVDD	–	–	L channel	Power terminal for L channel.
45	LCHO	Output	1/2VDD	D/A converter	L channel output terminal.
46	LVSS	–	–		Ground terminal for L channel. Surely connected to 0V.
47	RVSS	–	–	R channel	Ground terminal for R channel. Surely connected to 0V.
48	RCHO	Output	1/2VDD	D/A converter	R channel output terminal.
49	RVDD	–	–		Power terminal for R channel.
50	XVDD	–	–	For quartz	Power terminal for quartz oscillation.
51	XIN	Input	Oscillation	oscillation	Ground terminal of 16.9344MHz quartz oscillation.
52	XOUT	Output	Oscillation		
53	XVSS	–	–		Ground terminal for quartz oscillation. Surely connected to 0V.
54	ASLRCK	Input	–	For anti	L/R clock input terminal. (When not used,connect to 0V)
55	ASDACK	Input	–	shock mode	Bit clock input terminal. (When not used,connect to 0V)
56	ASDFIN	Input	–		L/R channel data input terminal. (When not used,connect to 0V)
57*	LRSY	Output	L	For digital	L/R clock output terminal.
58*	DATACK	Output	L	data output	Bit clock output terminal.
59*	DATA	Output	L		L/R channel data output terminal.
60*	16M	Output	Clock output	16.9344MHz output terminal.	
61*	SFSY	Output	L	Output terminal of synchronous signal of subcode frame. It drops when subcode stand by.	
62*	SBSY	Output	L	Output terminal of synchronous signal of subcode block.	
63*	PW	Output	L	Output terminal of subcodes P,A,R,S,T,U and W.	
64	SBCK	Input	–	Clock input terminal to read subcode. (When not used,connect to 0V)	
65	CE	Input	–	For	Chip enable signal input terminal.
66	CL	Input	–	microcomputer	Data transmission clock input terminal.
67	DI	Input	–	interface	Data input terminal.
68	DO	Output	L		Data output terminal.
69	INT	Output	H		Interruption signal output terminal.
70	WRQ	Output	H		Interruption signal output terminal.
71	RES	Input	–	Reset input terminal of LC78640. When turning on power, set it at "L".	
72	DRF	Output	L	Focus ON detection terminal.	
73	VDD5V	–	–	Power terminal for microcomputer interface.	
74	VSS	–	–	Ground terminal of digital system. Surely connected to 0V.	
75	CONT6	In/Output	Input mode	General purpose input/output terminal 6.	Controlled with serial data command from microcomputer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.
76	CONT7	In/Output	Input mode	General purpose input/output terminal 7.	
77*	V/ *P	Output	H	Monitor output terminal for automatic switch of rough servo/phase control. "H" for rough servo, and "L" for phase servo.	
78*	FSEQ	Output	L	Output terminal synchronous signal detection. "H" is output when synchronous signal detected by EFM signal matches synchronous signal internally generated.	
79*	DEFECT	In/Output	Input mode	Defect terminal. After resetting, it is configured as an input terminal. It can be controlled from the outside. It also becomes a defect monitor terminal under command control	
80*	EFMO	Output	Unfixed	EFM signal output terminal.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD,ADAVDD,VDD,LVDD,RVDD,XVDD)
Terminal witch is controlled by the power terminal (VDD5V) for a microcomputer interface :
CE (65pin), CL (66pin), DI (67pin), DO (68pin), INT (69pin), WRQ (70pin), RES (71pin), DRF (72pin),
CONT6 (75pin), CONT7 (76pin)

IC701 RH-iX0334AWZZ: System Microcomputer (IX0334AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	—	(+) POWER SUPPLY
2	P37	-20dBATT	Output	-20dB ATTENUATOR
3*	P36	S-BUSY	Output	Not used
4	P35	LCK1	Output	LED DRIVER LCK (BU2092-2)
5	P34	LCK0	Output	LED DRIVER LCK (BU2092-1)
6	P33	DP REQ	Output	DOLBY PROLOGIC REQ TERMINAL
7	P32	RES OUT	Output	CD DSP RESET&MPEG μCOM RESET
8	P31	DRF	Input	CD RF LEVEL DETECTION
9	P30	WRQ	Input	CD DSP WRITE REQUEST
10	RESET	RESET	Input	μCOM RESET
11	X2	X2	Output	MAIN CLOCK
12	X1	X1	Input	MAIN CLOCK
13	Vpp/IC	Vpp/IC	—	GND
14*	XT2	XT2	—	OPEN
15	P04	CD INT	Input	CD DSP INTERRUPT
16	VDD	VDD	—	(+) POWER SUPPLY
17	P27	CD CLK/MCLK	Output	CD DSP CLOCK/MPEG μCOM CLOCK
18	P26	CD DI/MDI	Outout	CD DSP COMMAND/MPEG μCOM COMMAND
19	P25	CD DO/MDO	Input	CD DSP CODE Q OUT/MPEG μCOM DATA INPUT
20	P24	CD CE	Output	CD DSP CE OUTPUT
21	P23	CE	Output	CE OUTPUT
22	P22	CLK	Output	CLOCK OUTPUT
23	P21	DI	Output	DATA OUTPUT
24	P20	DO	Input	DATA INPUT
25	AVss	AVSS	—	ANALOG GROUND
26	ANI7	TUN SMIM-BUSY	Input	TUNER SIGNAL METER INPUT
27	ANI6	SPEANA3	Input	SPEANA DATA INPUT L, R 16 KHz
28	ANI5	SPEANA2	Input	SPEANA DATA INPUT L, R 63Hz
29	ANI4	SPEANA1	Input	SPEANA DATA INPUT R-CH 1KHz
30	ANI3	SPEANA0	Input	SPEANA DATA INPUT L-CH 1KHz
31-33	ANI2-ANI0	KEY2-KEY0	Input	KEY INPUT
34	AVDD	AVDD	—	ANALOG VDD
35	AVREF	AVREF	—	ANALOG REF VOLTAGE
36	INTP3	SYS STOP	Input	SYSTEM STOP INPUT
37	INTP2	JOG1	Input	KEY JOG INPUT 1
38	INTP1	JOG0	Input	KEY JOG INPUT 2
39	INTP0	REMOCON	Input	REMOCON INPUT
40	Vss	Vss	—	GROUND VOLTAGE
41	P74	SMUTE	Output	SYSTEM MUTE CONTROL
42	P73	T_SOL B	Output	TAPE2 SOLENOID CONTROL
43	P72	T_SOL A	Output	TAPE1 SOLENOID CONTROL
44	P71	T_MOTOR	Output	TAPE MOTOR CONTROL
45	P70	TIMER LED	Output	TIMER OED CONTROL
46	VDD	VDD	—	(+) POWER SUPPLY
47	P127	AC PLY_CONT	Output	AC RELAY CONTROL
48	P126	SPRLY	Output	SPEAKER OUTPUT RELAY CONTROL
49	P125	SP DET	Input	SPEAKER OUTPUT DETECTION
50	P124	T1 RUN	Input	TAPE1 RUN PULSE TNPUT
51	P123	T2 RUN	Input	TAPE2 RUN PULSE TNPUT
52	P122	CD CLAMP SW	Input	CD CHANGER CLAMP SWITCH
53	P121	PLAY SW_A	Input	PLAY SWITCH FOR T1

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iX0334AWZZ: System Microcomputer (IX0334AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
54	P120	PLAY SW_B	Input	PLAY SWITCH FOR T2
55	P119	FPA	Input	TAPE2 A-SIDE FULL PROOF
56	P118	FPB	Input	TAPE2 B-SIDE FULL PROOF
57	P117	MIC SW	Input	MIC SWITCH
58	P116	KARAOKE LATCH	Output	KARAOKE LATCH
59	P115	DIST_OUT/SW OUT	Output	DISTINATION OUTPUT/SWITCH OUTPUT
60	P112	SPN	Input	TUNER SPAN CHANGE
	FIP39	P25	Output	FL DISPLAY SEGMENT DRIVER
61	P111	MOV VOL COM OPN SW	Input	MOVING VOLUME CONTROL OPEN SWITCH
	FIP38	P24	Output	FL DISPLAY SEGMENT DRIVER
62	P110	MOV VOL COM CLS SW	Input	MOVING VOLUME CONTROL CLOSE SWITCH
	FIP37	P23	Output	FL DISPLAY SEGMENT DRIVER
63-66	FIP36-FIP33	P22-P19	Output	FL DISPLAY SEGMENT DRIVER
67	P103	DIST3	Input	DISTINATION INPUT
	FIP32	P18	Output	FL DISPLAY SEGMENT DRIVER
68	P102	DIST2	Input	DISTINATION INPUT
	FIP31	P17	Output	FL DISPLAY SEGMENT DRIVER
69	P101	DIST1	Input	DISTINATION INPUT
	FIP30	P16	Output	FL DISPLAY SEGMENT DRIVER
70	P100	DIST0	Input	DISTINATION INPUT
	FIP29	P15	Output	FL DISPLAY SEGMENT DRIVER
71-78	FIP28-FIP21	P14-P7	Output	FL DISPLAY SEGMENT DRIVER
79	VLOAD	VLOAD	—	FL DRIVER (-) POWER SUPP. -30V
80-85	FIP20-FIP15	P9-P1	Output	FL DISPLAY SEGMENT DRIVER
86-100	FIP14-FIP0	G15-G1	Output	FL DISPLAY SEGMENT DRIVER

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC3 VHiM63001FP-1: Focus/Tracking/Spin/Sled Driver (M63001FP)

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36*	OUT5+	CH5 non-inverted output.
37*	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.

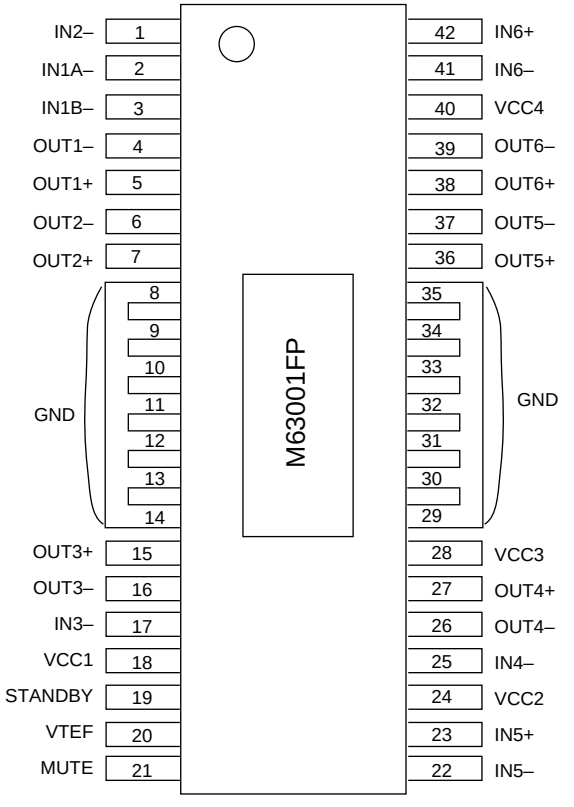
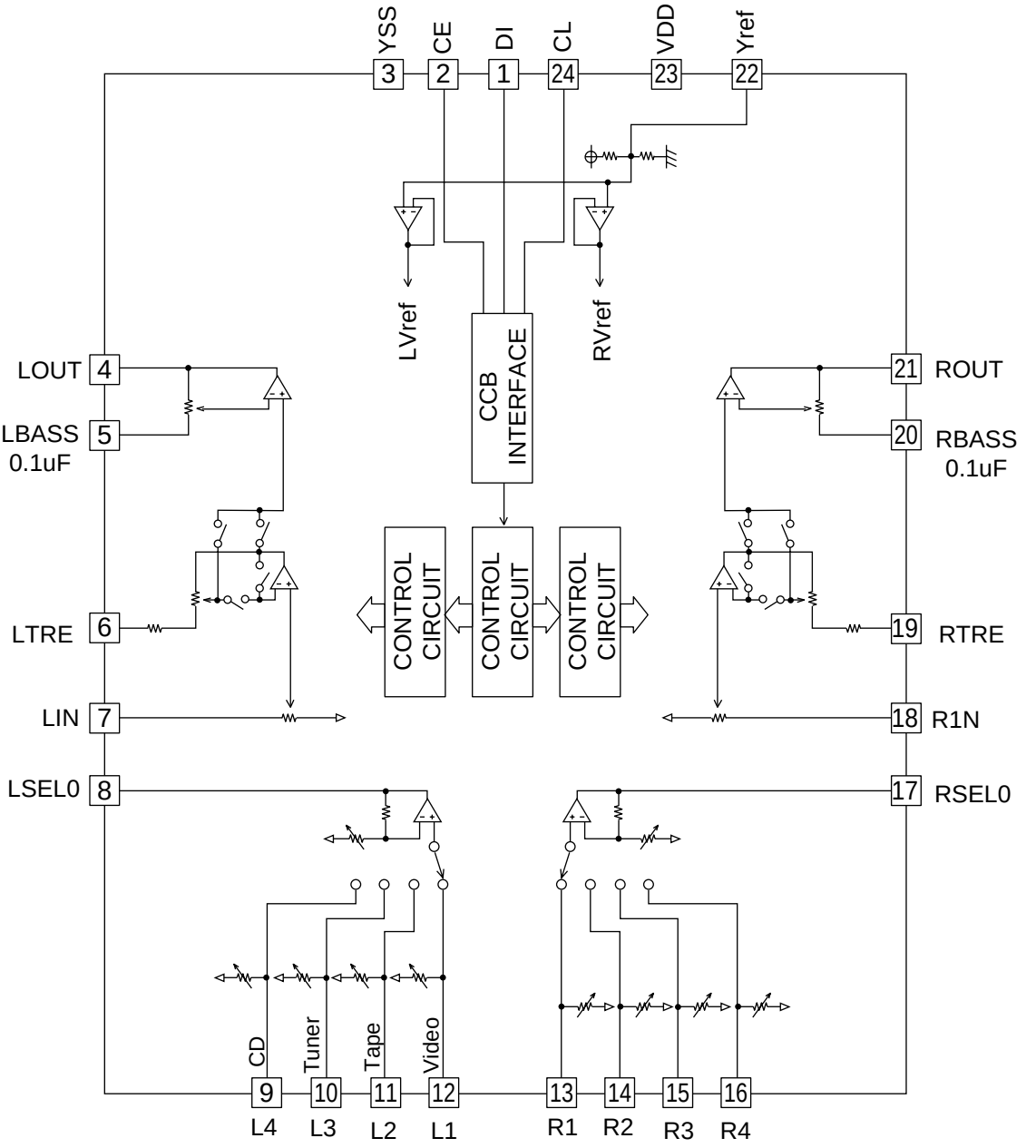


Figure 52 BLOCK DIAGRAM OF IC

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC401 VHiLC75341/-1: Audio Processor (LC75341/)



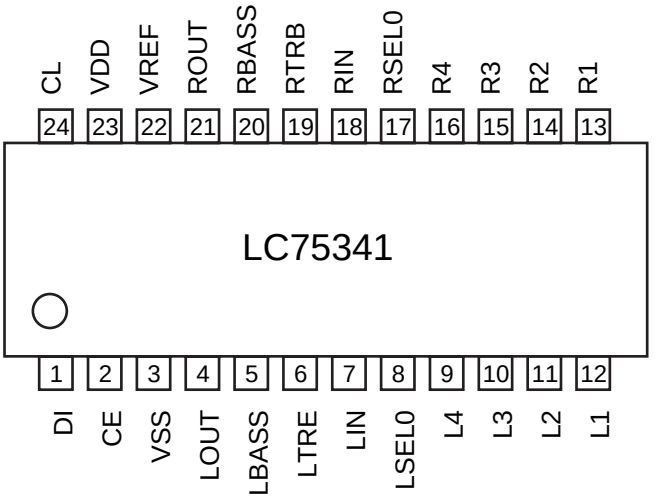
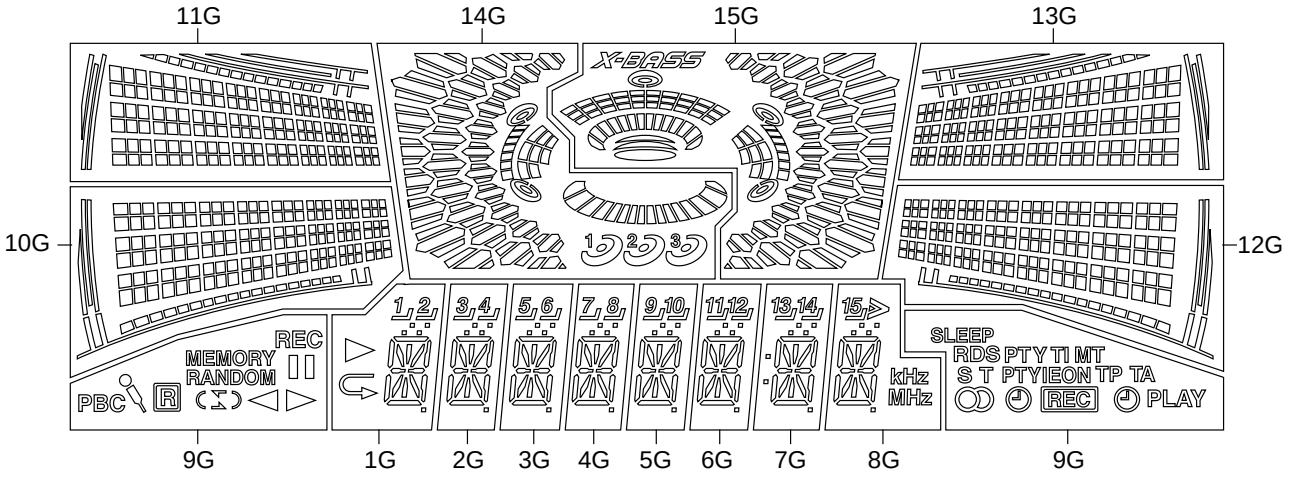
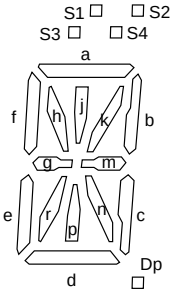


Figure 53 BLOCK DIAGRAM OF IC

FL701 VVKBJ744GNK-1: FL Display





(1G~8G)

PIN CONNECTION

PIN NO.	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	F1

PIN NO.	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
CONNECTION	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NX	NX	NX	NX	NX	NX	NX	NX

PIN NO.	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
CONNECTION	F2	F2	F2	NP	NP	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13

Figure 54 FL DISPLAY

SHARP PARTS GUIDE

MODEL CD-DP2500W

CD-DP2500W Mini Component System consisting of CD-DP2500W (main unit), CP-DP2500 (front speakers), GBOXS0038AWM1 (centre speaker) and GBOXS0039AWM1 (surround speakers).

MODEL CD-DK2500W

CD-DK2500W Mini Component System consisting of CD-DK2500W (main unit), CP-DP2500 (front speakers), GBOXS0038AWM1 (centre speaker) and GBOXS0039AWM1 (surround speakers).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
INTEGRATED CIRCUITS				
IC1	VHILA9235M/-1	J	AQ	Servo Amp.,LA9235M
IC2	VHILC78641E-1	J	AV	Servo/Signal Control,LC78641E
IC3	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/ Playback Amp.,AN7345K
IC201	VHIBU4066BC-1	J	AG	Switching,BU4066BC
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832//-1	J	AR	FM IF Det./FM Mpx./ AM IF, LA1832
IC401	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC501	VHIM62464AFP1	J	BB	Dolby Prologic Decorder, M62464AFP
IC601~603	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC701	RH-IX0334AWZZ	J	AX	System Microcomputer, IX0334AW
IC702,703	VHIBU2092F/-1	J	AM	Input/Output Expander,BU2092F
IC704	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC801	VHIKIA7805AP1	J	AF	Voltage Regulator,KIA7805AP
IC802	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC804	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
IC901	VHISTK40271-1	J	AZ	Power Amp,STK40271
IC902	VHISTK40203-1	J	AX	Power Amp,STK40203
ICK1	VHIM65856SP-1	J	AX	Karaoke,M65856SP [CD-DK2500W]
TRANSISTORS				
Q1	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q2	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q3	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q103~106	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q107,108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110,111	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q121,122	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q124	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q126	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q302	VSKTC3194Y/-1	J	AD	Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q401,402	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q403,404	VSKTC107M//-1	J		Silicon,NPN,KTC107 M
Q501~504	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701~703	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q704,705	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q706	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q707,708	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q709	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q710~712	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q803	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q804	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q823	VSKTC2026//-1	J	AF	Silicon,NPN,KTC2026
Q901~909	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q910	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q911	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QK1	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y [CD-DK2500W]
QK2,3	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR [CD-DK2500W]
DIODES				
D21,22	VHD1SS133//-1	J	AA	Silicon,1SS133
D101	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D102	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D201,202	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D301~304	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D305	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D501,502	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D601~606	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D701,702	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D704~706	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D708~714	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D717,718	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D801	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM-1
D802	VHDD3SBA60F-1	J		Silicon,D3SBA60F
D803~809	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D810~813	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D814~818	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D901~909	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
DK1,2	VHD1SS133//-1	J	AA	Silicon,1SS133 [CD-DK2500W]
LED700	VHP4204SRT7-1	J	AD	LED,Red,4204SRT7
LED701~714	VHP4204UYT7-1	J	AD	LED,Yellow,4204UYT7
LED715~717	VHP4204UGT7-1	J	AD	LED,Green,4204UGT7-1
LED718	VHP4204UYT7-1	J	AD	LED,Yellow,4204UYT7
VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
VD302,303	VHCKDV147B/-1	J	AH	Variable Capacitance,KDV147B
ZD61	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD502	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD601	VHEDZ6R2BSC-1	J	AB	Zener,DZ6R2BSC
ZD801	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD802	VHEDZ300BSB-1	J	AB	Zener,30V,DZ300BSB
ZD803	VHEDZ130BSB-1	J	AB	Zener,DZ130BSB
ZDK1	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B [CD-DK2500W]
FILTERS				
BF301	RFILF0008AWZZ	J		AM IF
CF303	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF
TRANSFORMERS				
⚠ PT801	RTRNP0299AWZZ	J		Power (Main)
⚠ PT802	RTRNP0239AWZZ	J	AP	Power (Sub)
T301	RCILB0065AWZZ	J	AC	OSC,FM
T302	RCILI0017AWZZ	J	AB	FM IF
T303	RCILA0052AWZZ	J	AE	AM Antenna
T306	RCILB0058AWZZ	J	AC	OSC,AM
T351	RCILI0019AWZZ	J	AD	AM IF
COILS				
L61	VP-XHR82K0000	J	AC	0.82 µH
L62	VP-DH2R2K0000	J	AB	2.2 µH,Choke
L99	VP-DH2R2K0000	J	AB	2.2 µH,Peaking
L104	VP-MK331K0000	J	AB	330 µH,Choke
L312	RCILR0056AWZZ	J	AB	FM RF
L351,352	VP-DH101K0000	J	AB	100 µH,Choke
L601	VP-DH101K0000	J	AB	100 µH,Choke
L702	VP-DH101K0000	J	AB	100 µH,Choke
L901~904	RCILZ0137AFZZ	J	AA	0.29 µH
CONTROLS				
VR701	QSW-Z0010AWZZ	J	AF	Switch,Push Type [VOLUME]
VRK1	92LVRR1674A	J	AF	20 kohms (B)Mic 1 Level [CD-DK2500W]
VRK2	92LVRR1674A	J	AF	20 kohms (B)Mic 2 Level [CD-DK2500W]
VIBRATORS				
X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XL1	RCRSP0005AWZZ	J	AF	Crystal,16.934 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal
CAPACITORS				
C6	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C7	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C8	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C11	RC-EZY476AF0J	J	AB	47 µF,6.3V,Electrolytic
C12	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C13	VCKYTV1HB103K	J	AA	0.01 µF,50V
C14	VCFYDA1HA334J	J	AC	0.33 µF,50V,Polyester
C17	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C18	VCCCTV1HH3R0C	J	AA	3 pF (CH),50V
C20,21	VCTYPA1CX104K	J	AB	0.1 µF,16V
C22	VCKYTV1HB101K	J	AA	100 pF,50V
C23	VCTYPA1CX473K	J	AA	0.047 µF,16V
C24	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C25	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C26	VCTYPA1CX473K	J	AA	0.047 µF,16V
C27	VCKYBT1HF104Z	J		0.1 µF,50V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C28	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C29,30	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C31	VCEAZA0JW107M	J	AC	100 µF,10V,Electrolytic
C34	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C35	VCCSPA1HL8R0J	J	AB	8 pF,50V
C36	VCCSPA1HL100J	J	AA	10 pF,50V
C38,39	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C40	VCKYTV1HB152K	J	AA	0.0015 µF,50V
C41	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C42	VCCCTV1HH680J	J	AA	68 pF (CH),50V
C43	VCKYTV1HB152K	J	AA	0.0015 µF,50V
C44	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C45	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C46	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C47	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C48	VCKYBT1HB102K	J	AA	0.001 µF,50V
C49,50	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C51	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C52	VCTYPA1CX103K	J	AA	0.01 µF,16V
C53	VCKYTV1HB102K	J	AA	0.001 µF,50V
C54	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C55	VCKYTV1HB103K	J	AA	0.01 µF,50V
C56	VCEAZA0JW337M	J	AC	330 µF,6.3V,Electrolytic
C64	RC-EZY476AF0J	J	AB	47 µF,6.3V,Electrolytic
C71	VCKYTV1HB101K	J	AA	100 pF,50V
C72	VCKYTV1HB103K	J	AA	0.01 µF,50V
C73~78	VCKYTV1HB101K	J	AA	100 pF,50V
C80~83	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C98	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C99	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C101,102	VCKYMN1HB102K	J	AA	0.001 µF,50V
C105	VCKYMN1HB181K	J	AA	180 pF,50V
C105,106	VCKYMN1HB181K	J	AA	180 pF,50V
C107,108	VCKYMN1HB102K	J	AA	0.001 µF,50V
C109	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C111~114	VCKYMN1HB331K	J	AA	330 pF,50V
C115,116	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C117,118	VCTYPA1EX333K	J	AA	0.033 µF,25V
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V
C121,122	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C123	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C124	VCTYPA1CX222K	J	AA	0.0022 µF,16V
C127	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C128	VCEAEA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C131,132	VCKYMN1HB271K	J	AA	270 pF,50V
C133,134	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C135,136	VCTYPA1CX223K	J	AA	0.022 µF,16V
C139,140	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C141,142	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C145	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C146	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C150	VCQPKA2AA822J	J	AA	0.0082 µF,100V,Polypropylene
C151	VCQYKA1HM393K	J	AB	0.039 µF,50V,Mylar
C152	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C153	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C154	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C201~204	VCKYMN1HB391K	J	AA	390 pF,50V
C205	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C206	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C207~210	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C211	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C212	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C301	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C302	VCKYMN1HB102K	J	AA	0.001 µF,50V [CD-DK2500W]
C303	VCCCMN1HH100J	J	AA	10 pF (CH),50V
C304	VCTYPA1CX103K	J	AA	0.01 µF,16V
C305	VCCSPA1HL4R7J	J		4.7 pF,50V
C306	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C307	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C308	VCCUMN1HJ4R7C	J	AA	4.7 pF (UJ),50V
C309	VCKYMN1HB102K	J	AA	0.001 µF,50V
C310	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C311	VCCSMN1HL180J	J	AA	18 pF,50V
C312	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C313	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C314,315	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C316	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C317	VCKYMN1HB102K	J	AA	0.001 µF,50V
C318	VCKYMN1HB101K	J	AA	100 pF,50V
C323	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C324	VCCUMN1HJ8R2D	J	AA	8.2 pF (UJ),50V
C330	VCCUMN1HJ150J	J	AA	15 pF (UJ),50V
C331	VCKYPA1HF473J	J		0.047 µF,50V
C332	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C335	VCKYMN1HB561K	J	AA	560 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C350,351	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C352	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	VCEAEA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	VCEAEA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C365	VCTYPA1CX223K	J	AA	0.022 µF,16V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C369	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C370~372	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX153K	J	AA	0.015 µF,16V
C375	VCKYBT1HB102K	J	AA	0.001 µF,50V
C380	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C384	VCTYMN1HB102K	J	AA	0.001 µF,50V
C385	VCTYMN1CY103K	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C391	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C394	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C401	VCEAEA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C402,403	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C404	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C405~408	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C410,411	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C413,414	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C415	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C416,417	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C418	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C419	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C420	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C421	VCEAEA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C422	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C423	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C424,425	VCEAEA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C426,427	VCEAEA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C501,502	VCEAEA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C503	VCEAEA1HW106M	J		10 µF,50V,Electrolytic
C504~506	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C507	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C508	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C509	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C510	VCQYKA1HM223K	J	AB	0.022 µF,50V,Mylar
C511	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C512	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C513	VCKYMN1HB102K	J	AA	0.001 µF,50V
C514	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C515,516	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
C517	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C518	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C519	VCKYMN1HB102K	J	AA	0.001 µF,50V
C520	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C521	VCTYMN1CX562K	J	AA	0.0056 µF,16V
C522	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C523	VCFYDA1HA684J	J	AF	0.68 µF,50V,Thin Film
C524,525	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
C526,527	VCEAEA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C528,529	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
C530	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C531	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C532~534	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C535,536	VCTYMN1EF223Z	J	AA	0.022 µF,25V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C537	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C538	VCKYMN1HB681K	J	AA	680 pF,50V
C539,540	VCQYKA1HM103K	J	AA	0.01 µF,50V,Mylar
C541	VCKYPA1HB681K	J	AA	680 pF,50V
C542,543	VCQYKA1HM103K	J	AA	0.01 µF,50V,Mylar
C544	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C545	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C546	VCEAEA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C547	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C548	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C549,550	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C551~554	VCKYMN1HB102K	J	AA	0.001 µF,50V
C567	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C568,569	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C570	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C601,602	VCKYMN1HB271K	J	AA	270 pF,50V
C603,604	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C605,606	VCEAEA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C607,608	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C609	VCTYPA1CX223K	J	AA	0.022 µF,16V
C610~612	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C613~616	VCTYMN1CX272Z	J		2700 pF,16V
C617,618	VCEAEA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C619	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C625	VCKYMN1HB102K	J	AA	0.001 µF,50V
C698,699	VCTYMN1HF223Z	J		0.022 µF,50V
C701,702	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C706	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C707,708	RC-EZD225AF1H	J	AB	2.2 µF,50V,Electrolytic
C709,710	VCKYMN1HB102K	J	AA	0.001 µF,50V
C711	VCKYMN1CY103N	J	AB	0.01 µF,16V
C712	RC-EZD104AF1H	J	AB	0.1 µF,50V,Electrolytic
C713	RC-EZD335AF1H	J	AB	3.3 µF,50V,Electrolytic
C714	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C716	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C717	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
C718	VCCCMN1HH180J	J	AA	18 pF (CH),50V
C719	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C720	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C721	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C722	RC-EZD227AF1A	J	AC	220 µF,10V,Electrolytic
C723	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
C724	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C725	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
C726	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C801	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C802	VCEAZA1EW227M	J	AC	220 µF,25V,Electrolytic
C803,804	VCEAZW1HW228M	J	AH	2200 µF,50V,Electrolytic
C805	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C806	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C807	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C808	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C809,810	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C811	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C812	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C813	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C814	VCEAZW1EW338M	J	AG	3300 µF,25V,Electrolytic
C815,816	VCEAZW1HW228M	J	AH	2200 µF,50V,Electrolytic
C817~822	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C823	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C824,825	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C826	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C827,828	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C829	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
C830	VCEAZV1VW477M	J	AD	470 µF,35V,Electrolytic
C831	RC-KZ001LAWZZ	J	AB	0.0047 µF,250VAC,Ceramic
C832	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C833	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C834	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C901	VCCSPA1HL470J	J	AA	47 pF,50V
C902	VCCSPA1HL150J	J	AA	15 pF,50V
C903	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C904	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C905	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C906,907	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C908	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C909	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C910	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C911	VCCSPA1HL470J	J	AA	47 pF,50V
C912	VCCSPA1HL150J	J	AA	15 pF,50V
C913	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C914	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C915	VCCSPA1HL221J	J	AA	220 pF,50V
C916	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C917	VCCSPA1HL221J	J	AA	220 pF,50V
C918~921	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C930	VCCSPA1HL221J	J	AA	220 pF,50V
C931	VCCSPA1HL150J	J	AA	15 pF,50V
C932	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C933	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C934	VCCSPA1HL221J	J	AA	220 pF,50V
C935,936	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C937	VCCSPA1HL221J	J	AA	220 pF,50V
C938	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C939,940	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C941	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C942	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C943	VCCSPA1HL221J	J	AA	220 pF,50V
C944	VCCSPA1HL150J	J	AA	15 pF,50V
C945,946	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C947~950	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C960	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C961	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C986	VCKYPA1HB102K	J	AA	0.001 µF,50V
C987	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
CK1	VCTYPA1CX103K	J	AA	0.01 µF,16V [CD-DK2500W]
CK2	VCFYHA1HA474J	J	AD	0.47 µF,50V,Thin Film [CD-DK2500W]
CK3	RC-EZY475AF1H	J	AB	4.7 µF,50V,Electrolytic [CD-DK2500W]
CK4	RC-EZY225AF1H	J	AB	2.2 µF,50V,Electrolytic [CD-DK2500W]
CK5	VCFYDA1HA104J	J	AB	0.1 µF,50V,Thin Film [CD-DK2500W]
CK7	VCFYHA1HA474J	J	AD	0.47 µF,50V,Thin Film [CD-DK2500W]
CK8	RC-EZY475AF1H	J	AB	4.7 µF,50V,Electrolytic [CD-DK2500W]
CK9	RC-EZY225AF1H	J	AB	2.2 µF,50V,Electrolytic [CD-DK2500W]
CK10	VCFYDA1HA104J	J	AB	0.1 µF,50V,Thin Film [CD-DK2500W]
CK12	RC-EZY225AF1H	J	AB	2.2 µF,50V,Electrolytic [CD-DK2500W]
CK13	VCTYPA1CX472K	J	AA	0.0047 µF,16V [CD-DK2500W]
CK14	VCTYPA1CX102K	J	AA	0.001 µF,16V [CD-DK2500W]
CK15	VCQYKA1HM683K	J	AB	0.068 µF,50V,Mylar [CD-DK2500W]
CK16	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film [CD-DK2500W]
CK17	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic [CD-DK2500W]
CK18	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic [CD-DK2500W]
CK19	VCKZPA1HF223Z	J	AA	0.022 µF,50V [CD-DK2500W]
CK20	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film [CD-DK2500W]
CK21	VCQYKA1HM683K	J	AB	0.068 µF,50V,Mylar [CD-DK2500W]
CK22	VCTYPA1CX472K	J	AA	0.0047 µF,16V [CD-DK2500W]
CK23	VCTYPA1CX102K	J	AA	0.001 µF,16V [CD-DK2500W]
CK24~26	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic [CD-DK2500W]
CK29	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic [CD-DK2500W]
CK31	VCFYDA1HA154J	J	AB	0.15 µF,50V,Polyester [CD-DK2500W]
CK32	VCQYKA1HM223K	J	AB	0.022 µF,50V,Mylar [CD-DK2500W]
CK33~35	VCCSPA1HL470J	J	AA	47 pF,50V [CD-DK2500W]
CK41	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic [CD-DK2500W]
CK42	VCKZPA1HF223Z	J	AA	0.022 µF,50V [CD-DK2500W]
CK43,44	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK72	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic [CD-DK2500W]
CK73,74	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic [CD-DK2500W]

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R3	VRS-TV2AB473J	J	AA	47 kohms,1/10W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R4	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R5	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R6	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R7	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R8	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R10	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R11	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R12,13	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R14	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R15	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R16	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R17	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R19	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R20	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R21,22	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R25	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R35	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R38	VRD-ST2CD271J	J	AA	270 ohms,1/6W
R39	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R40	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R42	VRS-TV2AB124J	J	AA	120 kohms,1/10W
R44	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R45	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R46	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R47	VRD-ST2EE3R3J	J	AA	3.3 ohms,1/4W
R48	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R50	VRS-TV2AB470J	J	AA	47 ohms,1/10W
R51~54	VRS-TV2AB683J	J	AA	68 kohms,1/10W
R55,56	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R58	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R67,68	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R71~78	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R79	VRS-TV2AB155J	J	AA	1.5 Mohms,1/10W
R80	VRD-ST2CD105J	J	AA	1 Mohm,1/6W
R81,82	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R83,84	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R87	VRD-ST2CD121J	J	AA	120 ohms,1/6W
R94,95	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R101,102	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R112	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R113	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R114	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R115	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R117,118	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R119,120	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R121,122	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R123,124	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R125,126	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R131	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R132	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R134	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R135,136	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R137,138	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R139,140	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R141,142	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R145,146	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R153,154	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R160	VRD-RT2HD820J	J	AA	82 ohms,1/2W
R162	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R164	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R166	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R167	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R168	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R174	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R181,182	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R201~204	VRD-MN2BD393J	J	AA	39 kohms,1/8W
R205~208	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R209~216	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R217	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R218	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R219	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R220,221	VRD-MN2BD821J	J	AA	820 ohms,1/8W
R225	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R302	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R309	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R313	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R316	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R322	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R325	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R327	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R350	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R361,362	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R363,364	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R370	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R375	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R401	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R402	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R403	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R404,405	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R406	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R407	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R408	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R409,410	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R411,412	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R501	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R502	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R503	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R504,505	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R506	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R507~509	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R510	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R511	VRD-ST2CD154J	J	AA	150 kohms,1/6W
R512	VRD-MN2BD334J	J	AA	330 kohms,1/8W
R513	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R516	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R518	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R519	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R520,521	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R523,524	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R525~507	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R528	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R529	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R530	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R545,546	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R601	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R602	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R603	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R604	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R605	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R606	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R607	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R608	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R609,610	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R611,612	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R613,614	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R615,616	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R617,618	VRD-MN2BD154J	J	AA	150 kohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R619,620	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R621	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R622	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R623	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R624	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R625	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R626	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R627,628	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R629,630	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R701~703	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R704~706	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R707	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R709	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R710	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R712,713	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R714~717	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R718	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R719	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R720	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R721	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R722	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R723	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R724	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R725	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R726	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R727~730	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R731	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R732~734	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R735	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R736	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R737,738	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R739	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R740~742	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R743,744	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R745	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R746,747	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R748	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R749	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R750	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R751~755	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R756	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R757,758	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R759	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R760	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R761~765	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R766	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R767,768	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R769~772	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R774	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R776	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R779	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R781	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R782,783	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R784	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R785	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R786	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R787	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R788	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R789	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R790	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R793	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R794	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R796	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R801	VRS-VV3DA681J	J	AC	680 ohms,2W
R802,803	VRD-ST2EE223J	J	AA	22 kohms,1/4W
R804	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R806	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R807	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R808	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R809,810	VRD-ST2EE223J	J	AA	22 kohms,1/4W
R811	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R812	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R813	VRD-ST2CD100J	J	AA	10 ohm,1/6W
R814	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R815	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R816	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R817	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R901	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R902	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R903	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R904	VRD-ST2CD102J	J	AA	1 kohm,1/6W
⚠ R905	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R906	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R907	VRN-VV3AAR10J	J		0.1 ohm,1W
R908	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R909	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
⚠ R910	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R911	VRN-VV3AAR10J	J		0.1 ohm,1W
R912	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R913	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R914	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R915	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R916,917	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R918~920	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R921,922	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R923,924	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R930	VRD-ST2CD223J	J	AA	22 kohms,1/6W
⚠ R931	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R932	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R933	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R934	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R935	VRN-VV3AAR10J	J		0.1 ohm,1W
R936	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R937	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R938	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R939,940	VRD-ST2CD683J	J	AA	68 kohms,1/6W
⚠ R941	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R942	VRN-VV3AAR10J	J		0.1 ohm,1W
R943	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R944	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R945	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R946	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R947,948	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R949~951	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R952,953	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R954,955	VRD-RT2HD331J	J	AA	330 ohms,1/2W
R956,957	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R958	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R959	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R960,961	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R971	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R972	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R973	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R974	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R981~984	VRD-ST2EE100J	J	AA	10 ohm,1/4W
R987~990	VRN-VV3DAR22J	J	AC	0.22 ohms,2W
R991	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RD1	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD2	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD3	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD4	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD5	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RD6	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
RD7	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD8	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RD9	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RD10	VRD-ST2CD153J	J	AA	15 kohms,1/6W
RD11	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RD12	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RD13	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD14	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD15	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD16	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD17	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD18	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD19	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD20	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD21	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD22	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD23	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD24	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD25	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RD26	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RD27	VRD-MN2BD153J	J	AA	15 kohms,1/8W
RD28	VRD-ST2CD333J	J	AA	33 kohms,1/6W
RD29	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RD30	VRD-ST2CD184J	J	AA	180 kohms,1/6W
RK1	VRD-ST2CD103J	J	AA	10 kohm,1/6W [CD-DK2500W]
RK2,3	VRD-ST2CD563J	J	AA	56 kohms,1/6W [CD-DK2500W]
RK4	VRD-ST2CD103J	J	AA	10 kohms,1/6W [CD-DK2500W]
RK5	VRD-ST2CD102J	J	AA	1 kohm,1/6W [CD-DK2500W]
RK6	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W [CD-DK2500W]
RK7	VRD-ST2CD102J	J	AA	1 kohm,1/6W [CD-DK2500W]
RK8	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W [CD-DK2500W]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RK9~11	VRD-ST2CD102J	J	AA	1 kohm,1/6W [CD-DK2500W]
RK12	VRD-ST2CD101J	J	AA	100 ohm,1/6W [CD-DK2500W]
RK13	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W [CD-DK2500W]
RK14,15	VRD-RT2HD101J	J	AA	100 ohm,1/2W [CD-DK2500W]
RK36,37	VRD-ST2CD102J	J	AA	1 kohm,1/6W [CD-DK2500W]
RK38	VRD-ST2CD101J	J	AA	100 kohm,1/6W [CD-DK2500W]
RK39,40	VRD-ST2CD102J	J	AA	1 kohm,1/6W [CD-DK2500W]
RK41,42	VRD-ST2CD152J	J	AA	1.5 kohm,1/6W [CD-DK2500W]
RK43,44	VRD-ST2CD474J	J	AA	47 kohms,1/6W [CD-DK2500W]
RK45,46	VRD-ST2CD102J	J	AA	1 kohm,1/6W [CD-DK2500W]
RK47,48	VRD-ST2CD681J	J	AA	680 kohms,1/6W [CD-DK2500W]
RM710~712	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RM713~715	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS701~704	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS705	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS708~710	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RS711,712	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS714	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RS715	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS716	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RS717,718	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS720	VRD-MN2BD221J	J	AA	220 ohms,1/8W
RS721~723	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS724~726	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RS727~732	VRD-ST2CD102J	J	AA	1 kohm,1/6W

OTHER CIRCUITRY PARTS

BI4/CNS4	QCNWN1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI99/CNS99	QCNWN1611AWZZ	J	AG	Connector Ass'y,3/3Pin
BI401/CNS401	QCNWN1540AWZZ	J	AF	Connector Ass'y,5/5Pin
BI701/CNS701	QCNWN1541AWZZ	J	AH	Connector Ass'y,10/10Pin
BI702/CNS702	QCNWN1607AWZZ	J	AG	Connector Ass'y,9/9Pin
BIK1/CNSK1	QCNWN1573AWZZ	J		Connector Ass'y,11/11Pin [CD-DK2500W]
CNP1	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP5	92LCONE3P53254	J	AB	Plug,3Pin
CNP11	92LCONE5P53254	J	AB	Plug,5Pin
CNP12	92LCONEAP53254	J	AD	Plug,10Pin
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP102/CNS102	QCNWN1609AWZZ	J	AB	Connector Ass'y,7/7Pin
CNP301	92LCONE2P5268	J	AB	Plug,2Pin
CNP401	92LCONEBP53253	J	AC	Plug,11Pin [CD-DK2500W]
CNP501	QCNCM010NAWZZ	J	AC	Plug,13Pin
CNP601	92LCONE5P52287	J	AC	Socket,5Pin
CNP602	QCNCWZG23AWZZ	J	AK	Plug,23Pin [CD-DP2500W]
CNP602	QCNCWZG25AWZZ	J	AE	Socket,25Pin [CD-DK2500W]
CNP701	QCNCWZF23AWZZ	J	AK	Plug,23Pin [CD-DP2500W]
CNP701	QCNCWZF25AWZZ	J	AE	Socket,25Pin [CD-DK2500W]
CNP702	QCNCWZF13AWZZ	J		Plug,13Pin
⚠ CNP801	QCNCM049EAWZZ	J	AD	Plug,9Pin
CNP802	92LCONE8P5267X	J	AD	Plug,8Pin
CNP803	QCNWM050CAWZZ	J		Plug,3Pin
CNP804	92LCONE9P53253	J	AC	Plug,9Pin
CNP805	QCNCW010NAWZZ	J		Socket,13Pin
CNP806	92LCONE2P53253	J	AB	Plug,2Pin
CNS1A/B	QCNWN1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCNWN1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS100	QCNWN1417AWZZ	J		Lead Wire Ass'y, with Lug
CNS806	QCNWN1542AWZZ	J	AC	Connector Ass'y,2Pin
CNS907	QCNWN1610AWZZ	J	AD	Flat Wire,5Pin
⚠ F801,802	92LFUSET502E	J	AC	Fuse,T5A L 250V
⚠ F803,804	92LFUSET402E	J	AD	Fuse,T4A L 250V
⚠ F805	92LFUSET202E	J		Fuse,T2A L 250V
FC701	QCNWN1564AWZZ	J	AG	Flat Cable,23Pin [CD-DP2500W]
FC701	QCNWN1568AWZZ	J	AG	Flat Cable,25Pin [CD-DK2500W]
FC702	QCNWN1417AWZZ	J		Flat Cable,13Pin
FL701	VVKBJ744GNK-1	J	BD	FL Display
IC99	VHPTOTX178A-1	J	AP	Optical Fiber Data Link,TOTX178A
JK1	QJAKJ0007AWZZ	J	AF	Jack,Mic 1 [CD-DK2500W]
JK2	QJAKJ0007AWZZ	J	AF	Jack,Mic 2 [CD-DK2500W]
JK201	QSOCJ0409AWZZ	J	AF	Jack,Video In
JK601	QJAKM0004AWZZ	J	AK	Jack,Headphones
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	92LTWMEN7E6Y	J	AR	Motor with Worm Pulley [T/T Up/Down Loading]
M901	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan
⚠ RL801	RRLYD0011AWZZ	J	AQ	Relay
RL901,902	RRLYD0014AWZZ	J	AK	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO301	QTANC0206AWZZ	J		Terminal,Antenna
SO901	QTANA1003AWZZ	J	AH	Terminal,Speaker
SW1	SWMPU10780MLB	J		Switch,Push Type [Open/Close]
SW2	SWMPU11470MLB	J		Switch,Push Type [Clamp]
SW3	SWMPU11470MLB	J		Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW702	92LSWICH1401AT	J	AC	Switch,Key Type [TAPE]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING DOWN]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [MEMORY/SET]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [REV]
SW706	92LSWICH1401AT	J	AC	Switch,Key Type [FF]
SW707	92LSWICH1401AT	J	AC	Switch,Key Type [PLAY]
SW708	92LSWICH1401AT	J	AC	Switch,Key Type [STOP]
SW709	92LSWICH1401AT	J	AC	Switch,Key Type [MEMORY/SET]
SW710	92LSWICH1401AT	J	AC	Switch,Key Type [REC]
SW711	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING UP]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [VIDEO]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [TUNER]
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [DIMMER]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [X-BASS]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [EQUAL]
SW717	92LSWICH1401AT	J	AC	Switch,Key Type [NORMAL]
SW718	92LSWICH1401AT	J	AC	Switch,Key Type [PHANTOM]
SW719	92LSWICH1401AT	J	AC	Switch,Key Type [BY-PASS]
SW720	92LSWICH1401AT	J	AC	Switch,Key Type [ON/STAND-BY]
SW721	92LSWICH1401AT	J	AC	Switch,Key Type [CLOCK]
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [TIMER]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 1]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 2]
SW730	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 3]
SW731	92LSWICH1401AT	J	AC	Switch,Key Type [DISC SKIP]
SW732	92LSWICH1401AT	J	AC	Switch,Key Type [OPEN/CLOSE]
SW733	92LSWICH1401AT	J	AC	Switch,Key Type [Reverse Mode]
SW799	QSW-S0024AWZZ	J	AE	Switch,Slide Type [SPAN SELECTOR]
⚠ SW801	QSOCE0008AWZZ	J	AH	Switch,Slide Type,Voltage Selector

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

	PSLDM3015AWFW	J	AD	Shield Plate
201	92LCAB3309AASY	J		Front Panel Ass'y [CD-DP2500W]
201	92LCAB3310AASY	J		Front Panel Ass'y [CD-DK2500W]
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	92LBADGE1671A	J	AC	Badg,SHARP
201- 3	GCOVA1251AWSA	J	AH	Cover,Cassette Holder,Tape 1

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
201- 4	GCOVA1256AWSA	J	AB	Indicator,PRESET
201- 5	GCOVA1258AWSA	J	AB	Indicator,TIMER
201- 6	GCOVA1260AWSA	J	AB	Indicator,Disc 1
201- 7	GCOVA1265AWZZ	J	AC	Indicator,CD
201- 8	GCOVA1266AWZZ	J	AC	Indicator,TUNER
201- 9	GCOVA1267AWZZ	J	AC	Indicator,TAPE
201-10	GCOVA1268AWZZ	J	AC	Indicator,VIDEO/AUX
201-11	GCOVA1275AWSA	J	AB	Indicator,Disc 2
201-12	GCOVA1276AWSA	J	AB	Indicator,Disc 3
201-13	GCOVA1277AWSA	J	AB	Indicator,MULTI OPERATION
201-14	GCOVA1298AWSA	J	AE	Cover,Cassette Holder,Tape 2
201-15	GDORF0074AWSA	J	AE	Holder,Cassette,Tape 1
201-16	GDORF0075AWSA	J	AE	Holder,Cassette,Tape 2
201-17	HDECQ0521AWSA	J	AD	Panel,Cassette Cover,Tape 1
201-18	HDECQ0522AWSA	J	AD	Panel,Cassette Cover,Tape 2
201-19	HDECQ0526AWSA	J	AE	Light Up Ring,VOLUME
201-20	HDECQ0566AWSA	J		Panel,Center Operation
201-21	HDECQ0580AWSA	J		Panel Amp. [CD-DK2500W]
201-21	HDECQ0581AWSA	J		Panel Amp. [CD-DP2500W]
201-22	JKNBZ0660AWSA	J	AF	Button,TUNNING
201-23	JKNBZ0661AWSA	J	AE	Button,DIMMER
201-24	JKNBZ0663AWSA	J	AE	Button,DOLBY/CENTER MODE
201-25	JKNBZ0665AWSA	J	AF	Button,Disc Number
201-26	JKNBZ0672AWSA	J	AF	Button,Function A
201-27	JKNBZ0673AWSA	J	AF	Button,Function B
201-28	JKNBZ0683AWSA	J	AG	BUtton,Center Operation
201-29	JKNBZ0714AWSA	J	AF	Button,ON/STAND-BY
201-30	MLIFP0008AWZZ	J	AD	Damper
201-31	MSPRD0127AWFJ	J	AB	Spring,Cassette Tape 2
201-32	MSPRD0138AWFJ	J		Spring,Cassette Tape 1
201-33	PSHEM0008AWZZ	J		Shield Sheet
201-34	PSHEP0042AWZZ	J		Spacer,Operation Button A
201-35	PSHEP0043AWZZ	J		Spacer,Operation Button B
202	92LCAB3303BASY	J		Side Panel Ass'y,Left
202- 1	————		—	Side Panel Ass'y,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3303CASY	J		Side Panel Ass'y,Right
203- 1	————		—	Side Panel Ass'y,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	COV3303AASY1	J	AM	CD Tray Cover Ass'y
204- 1	————		—	Cover,CD Tray (Not Replacement Item)
204- 2	GCOVA1254AWSA	J	AE	Cover,CD Tray,Left
204- 3	GCOVA1255AWSA	J	AE	Cover,CD Tray,Right
205	GCAB-1184AWSA	J	AP	Cabinet,Top
206	GCOVA1264AWZZ	J	AC	Cover,Volume Knob
207	GITAR0592AWSA	J		Rear Panel [CD-DK2500W]
207	GITAR0593AWSA	J		Rear Panel [CD-DP2500W]
208	JKNBK0012AWSG	J	AK	Knob,Mic Level [CD-DK2500W]
209	JKNBK0072AWSA	J	AE	Knob,VOLUME
210	KMECB0014AWZZ	J		Tape Mechanism Ass'y
211	LANGK0110AWFW1	J	AD	Bracket,Casette Lock Lever, Tape 1
212	LANGK0111AWFW1	J	AD	Bracket,Casette Lock Lever, Tape 2
213	LANGK0188AWFW	J	AF	Bracket,Fan Motor
214	LANGK0189AWFW	J	AC	Bracket,SUb Heat Sink A Support
217	LANGK0208AWFW	J		Bracket,PWB Support
218	LANGT0042AWFW	J	AC	Bracket,PWB Support
219	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
220	LCHSM0096AWFW	J	AR	Chassis,Main
222	LHLDK9001AW00	J	AB	Band
224	LHLDZ1242AWZZ	J	AE	FL HOLDER
225	LHLDZ1244AWZZ	J	AE	Holder,Dolby LED
226	LHLDZ1245AWZZ	J	AE	Holder,Volume LED
227	LHLDZ1247AWZZ	J	AE	Holder,Function LED
228	LHLDZ1252AWZZ	J		Holder,Disc Namber LED
229	LHLDZ1253AWZZ	J		Holder,Operation LED
232	MLOKC0003AWZZ	J	AD	Lock Lever,Casette,Tape 1
233	MLOKC0004AWZZ	J	AD	Lock Lever,Casette,Tape 2
234	MSPRD0109AWFJ	J	AB	Spring,Casette Lock Lever,Tape 1
235	MSPRD0110AWFJ	J	AB	Spring,Casette Lock Lever,Tape 2
237	NFANP0001AWZZ	J	AD	Rotary,Fan
241	PCUSG0022AWZZ	J	AB	Cushion,Leg
243	PRDAR0149AWFW	J	AP	Heat Sink,Main
244	PRDAR0150AWFW	J	AS	Heat Sink,Sub,B
245	PRDAR0151AWFW	J	AG	Heat Sink,Sub,A
246	PSHEP0037AWZZ	J	AC	Sheet,Reflector

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
⚠ 247	QACCA0003AW00	J		AC Power Supply Cord [For Saudi Arabia]
⚠ 247	QACCB0006AW00	J	AU	AC Power Supply Cord [For Hong Kong]
⚠ 247	QACCE0010AW00	J	AK	AC Power Supply Cord [Except for Saudi Arabia/Hong Kong/Tailand]
⚠ 247	QACCJ0007AW00	J		AC Power Supply Cord [For Tailand]
248	QFSHD0001AWZZ	J	AB	Holder,Fuse
249	QLUGP0001AWZZ	J	AC	Lug (LUG901,902)
250	QLUGP0002AWZZ	J	AB	Lug (LUG101)
251	92LBE241414	J	AD	Belt
252	92LCAUT1706A1	J	AC	Caution Lavel,Class 3 Laser
253	92LCAUT1706B	J	AA	Label,Laser
254	92LCSPR1431C	J	AA	Spring,Ring
255	92LEVA0330702	J	AD	Velvet Carpet,Cushion
⚠ 256	92LLUG1746A	J	AA	Lug (K801,802)
257	92LMAG0104302	J	AE	Magnet
258	92LMT0304302	J	AB	Plate,Metal
259	92LNBAND1318A	J	AA	Nylon Band
260	92LNM0305401	J	AB	Velvet Carpet
261	92LPT0303002	J	AB	Roller
262	92LPT0304303	J	AB	Lever,Stop
263	92LPT0304304	J	AB	Stopper
264	92LPT0304305	J	AE	Lever,Lock
265	92LPT0304306	J	AG	Stabilizer
266	92LPT0304307	J	AC	Support,Cam
267	92LPT0304308	J	AB	Lock Gear Pin
268	92LPT0304309	J	AB	Cap,Pulley Stopper
269	92LPT0305413	J	AG	Cam Gear Lower
270	92LPT0309506	J	AD	Gear,Turntable Drive
271	92LPT0309507	J	AD	Gear,Open/Close Drive
272	92LPT0309508	J	AD	Gear,Planet
273	92LPT0309509	J	AD	Gear,Drive
274	92LPT0309510	J	AE	Gear,Pulley
275	92LPT0309511	J	AD	Gear,Middle
276	92LPT0311101	J	AB	Lever,Clamp
277	92LPT0311102	J	AC	Lever,Disc
278	92LPT0312005	J	AL	Gear,Cam
279	92LPT0320201	J	AE	Support,Stabilizer
280	92LPT0330301	J	AU	Chassie
281	92LPT0330803	J	AK	CD,Chassis
282	92LPT0331003	J	AT	Holder,Slide
283	92LPT0331105	J	AM	Turntable
284	92LSP0304303	J	AB	Spring,Stopper
285	92LSP0304305	J	AB	Spring,Lock Lever
286	92LSP0304306	J	AG	Spring,Lock Gear
287	TSPC-0706AWZZ	J		Label,Specification [CD-DP2500W for Central & South America/Mexico]
287	TSPC-0707AWZZ	J		Label,Specification [CD-DP2500W for Taiwan]
287	TSPC-0708AWZZ	J		Label,Specification [CD-DP2500W for Thailand]
287	TSPC-0710AWZZ	J		Label,Specification [CD-DK2500W for Taiwan]
287	TSPC-0711AWZZ	J		Label,Specification [CD-DK2500W for Thailand]
601	XBBSD20P04000	J	AA	Screw,ø2×4mm
604	XEBSF30P12000	J	AA	Screw,ø3×12mm
605	XESSD30P10000	J	AA	Screw,ø3×10mm
606	XHBSD26P04000	J	AA	Screw,ø2.6×4mm
607	XHBSD30P06000	J	AA	Screw,ø3×6mm
608	XJBSD30P10000	J	AA	Screw,ø3×10mm
609	XJBSD30P14000	J	AA	Screw,ø3×14mm
611	XJSSD30P10000	J	AA	Screw,ø3×10mm
612	LX-BZ2222AXZZ	J		Screw,Special
613	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
614	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
616	92LSC0308RBZZ	J		Screw,ø3×8mm

FRONT SPEAKER

901	92LJ1924A	J	AN	Front Panel
903	92LJ1925A	J	AU	Net Frame Ass'y
905	92L9547C-1	J		Speaker Box Ass'y
907	92LP5876-2	J	AC	Label,Specification
909	92LJ9774A	J	AC	Cushion,Foot
910	92LJ9777P	J	AD	Port Cushion
912	92LJ9802	J	AF	Catching Holder
913	92LF1228A	J	AC	Screw,ø4×12mm

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
914	92LF1080	J	AB	Screw,ø3×10mm
916	92LJ9790B	J	AC	Felt
917	92LE5868A	J		Speaker Cord Ass'y With Capactot
SP1,2	92LJ2828A	J		Super,Tweeter
SP3,4	VSP0051TBN56A	J	AX	Tweeter
SP5,6	VSP0013WB486A	J	BF	Woofer

CENTER SPEAKER

901	92LSRCNF005RS	J	AP	Net Frame Ass'y
902	92LSRCBC008RS	J	AX	Bottom Cabinet
903	92LSRCSC005RS	J	AG	Speaker Cord
904	92LSRCSW006RS	J		Screw,ø3×14mm
905	92LSRCPL014RS	J		Label,Parts Code
906	92LSRCFT001RS	J	AD	Cushion
SP1	VSPA010PB146A	J	AW	Speaker

SURROUND SPEAKER

901	92LSRCNF004RS	J	AQ	Net Frame Ass'y
902	92LSRCBC009RS	J	AR	Bottom Cabinet
903	92LSRCSC006RS	J		Speaker Cord
904	92LSRCSW006RS	J		Screw,ø3×14mm
905	92LSRCPL015RS	J		Label,Parts Code
SP1,2	VSPA010PB15CA	J	AS	Speaker

ACCESSORIES/PACKING PARTS

	QANTL0008AWZZ	J	AH	AM Loop Antenna
⚠	QPLGA0003AWZZ	J	AF	Adaptor,AC Plug [For Asia/ Middle and Near East/Africa/ Saudi Arabia]
⚠	QPLGA0004AWZZ	J	AF	Adaptor,AC Plug [Except for Asia/Middle and Near East/ Africa/Saudi Arabia]
	SPAKA0236AWZZ	J		Packing Add.,Left/Right
	SPAKC0987AWZZ	J		Packing Case [CD-DK2500W]
	SPAKC1019AWZZ	J		Packing Case [CD-DP2500W]
	SPAKC1049AWZZ	J		Packing Case [CD-DK2500W Turkey Only]
	SPAKP0013AWZZ1	J	AC	Polyethylene Bag,Unit
	SPAKZ0573AWZZ	J		Sheet,CD Tray
	TCAUA0047AWZZ	J		Caution Tag [For Taiwan]
	TCAUS0019AWZZ	J	AD	Label,Caution [For Thailand]
	TCAUZ0035AWZZ	J	AB	Caution Sheet
	TGANE0011AW40	J		Warranty Card [CD-DK2500W for Philippines]
	TGANE0011AW41	J		Warranty Card [CD-DP2500W for Philippines]
	TGANZ0028AW46	J		Warranty Card [CD-DK2500W for Taiwan]
	TGANZ0028AW47	J		Warranty Card [CD-DP2500W for Taiwan]
	TINST0071AWZZ	J		Operation Manual [CD-DK2500W for Thailand]
	TINST0072AWZZ	J		Operation Manual [CD-DP2500W for Thailand]
	TINSZ0555AWZZ	J		Operation Manual [CD-DK2500W Except for Thailand]
	TINSZ0556AWZZ	J		Operation Manual [CD-DP2500W Except for Thailand]
	TLABB0001AWZZ	J	AB	Label,Japan
	TLABE0376AWZZ	J		Label,Bar Code [CD-DK2500W for Union of Arab Emirates Only]
	TLABE0377AWZZ	J		Label,Bar Code [CD-DK2500W]
	TLABE0378AWZZ	J		Label,Bar Code [CD-DP2500W Union of Arab Emirates Only]
	TLABE0379AWZZ	J		Label,Bar Code [CD-DP2500W]
	TLABG0002AWZZ	J	AB	Label,HongKong
	TLABH0056AWSA	J	AF	Sheet,E/C Comparison
	TLABH0057AWSA	J	AF	Sheet,E/C Comparison
	TLABH0058AWSA	J	AF	Sheet,E/C Comparison
	TLABJ0003AWZZ	J	AB	Label,Japan,Packing Case
	TLABN0112AWZZ	J		Label,Serial
	TLABR1091AWZZ	J		Label,Bar Code [CD-DP2500W]
	TLABS0255AWZZ	J		Label,Safety [For HongKong]
	TLABZ0620AWZZ	J	AB	Label,Saving Energy
	TLABZ0741AWZZ	J		Label,Carton [CD-DP2500W For Taiwan]
	TLABZ0742AWZZ	J		Label,Carton [CD-DK2500W For Taiwan]
	TLABZ0745AWZZ	J		Label,Feature,Tape 1
	TLABZ0746AWZZ	J		Label,Feature,Tape 2
	TLABZ0747AWZZ	J		Label,Feature,Tape 1 [CD-DK2500W]
	TLSTS0014AWZZ	J	AB	S/S List
	TMAPC0175AWZZ	J		Schematic Diaglam A [CD-DK2500W]
	TMAPC0176AWZZ	J		Schematic Diaglam B [CD-DK2500W]
	TMAPC0177AWZZ	J		Schematic Diaglam A [CD-DP2500W]
	TMAPC0178AWZZ	J		Schematic Diaglam B [CD-DP2500W]
	UBATU0001AWZZ	J	AE	Battery,SUM-3 (Not Replacement Item)
	92LBAG1460C1	J	AB	Polyethylene Bag,Operation Manual
	92LBAG1770A	J	AB	Polyethylene Bag,AC Cord
	92LBAG760C	J	AA	Polyethylene Bag,AC Plug
	92LFANT1535A	J	AF	FM Antenna
	92LFANT1746A	J	AD	FM Antenna
	92LLABL1204C	J	AA	Label,MADE IN MALAYSIA
	92LLABL1507B	J	AA	Label,Packing Case,MADE IN MALAYSIA
	92LN1886F	J	AM	Packing Add.,Front (Front Speaker)
	92LN1886R	J	AK	Packing Add.,Rear(Front Speaker)
	92LPANEL713A	J	AB	Panel,MADE IN MALAYSIA
	92LSRCBP011RS	J	AL	Packing Add.,Bottom (Center/ Surround Speaker)
	92LSRCPE007RS	J		Polyethylene Bag (Center Speaker)
	92LSRCPE008RS	J		Polyethylene Bag (Surround Speaker)
	92LSRCTP010RS	J	AM	Packing Add.,Top (Center/ Surround Speaker)
	92LV45365-15	J		Polyethylene Bag (Front Speaker)
1	RRMCG0216AWSA	J		Remote Control [CD-DP2500W]
1	RRMCG0217AWSA	J		Remote Control [CD-DK2500W]
1- 1	GFTAB1022AWSB	J	AK	Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~4	92LPWB3309MANS	J	—	Main/Display/Headphone/Digital Output (Combined Ass'y) [CD-DP2500W]
PWB-A1~4	92LPWB3310MANS	J	—	Main/Display/Headphone/Digital Output (Combined Ass'y) [CD-DK2500W]
⚠ PWB-B	92LPWB3309PWRS	J	—	Power Supply [CD-DP2500W]
⚠ PWB-B	92LPWB3310PWRS	J	—	Power Supply [CD-DK2500W]
PWB-C	92LPWB3306CDUS	J	—	CD Servo
PWB-D	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-E	————			Tape Mechanism
PWB-F	92LPC99C017	J	AE	CD Loading Motor (PWB Only)
PWB-G	QPWBF0598AWZZ	J		Karaoke (PWB Only) [CD-DK2500W]

OTHER SERVICE PARTS

	UDSKA0004AFZZ	J	AZ	CD Optical Pickup Lens Cleaner Disc

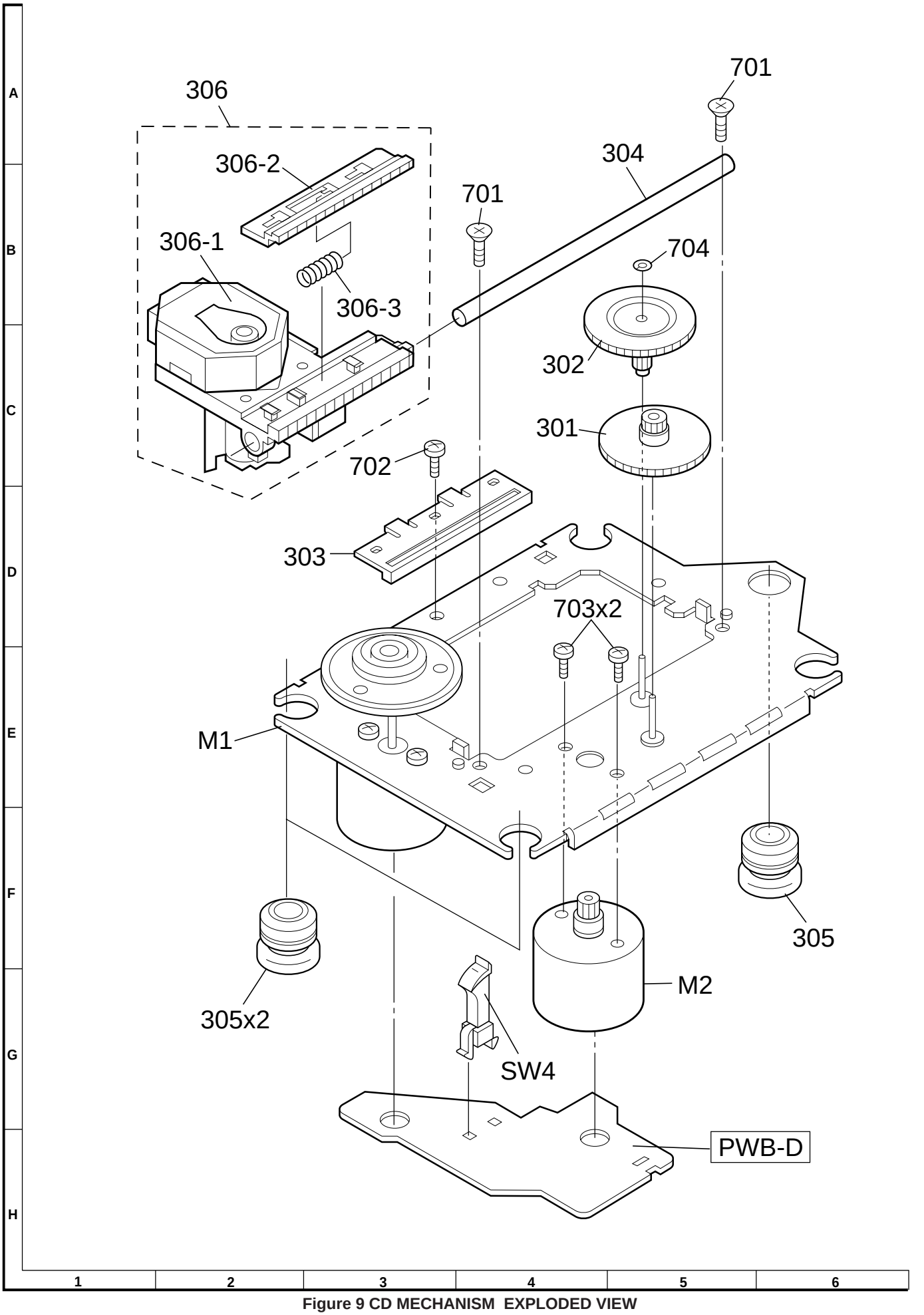


Figure 9 CD MECHANISM EXPLODED VIEW

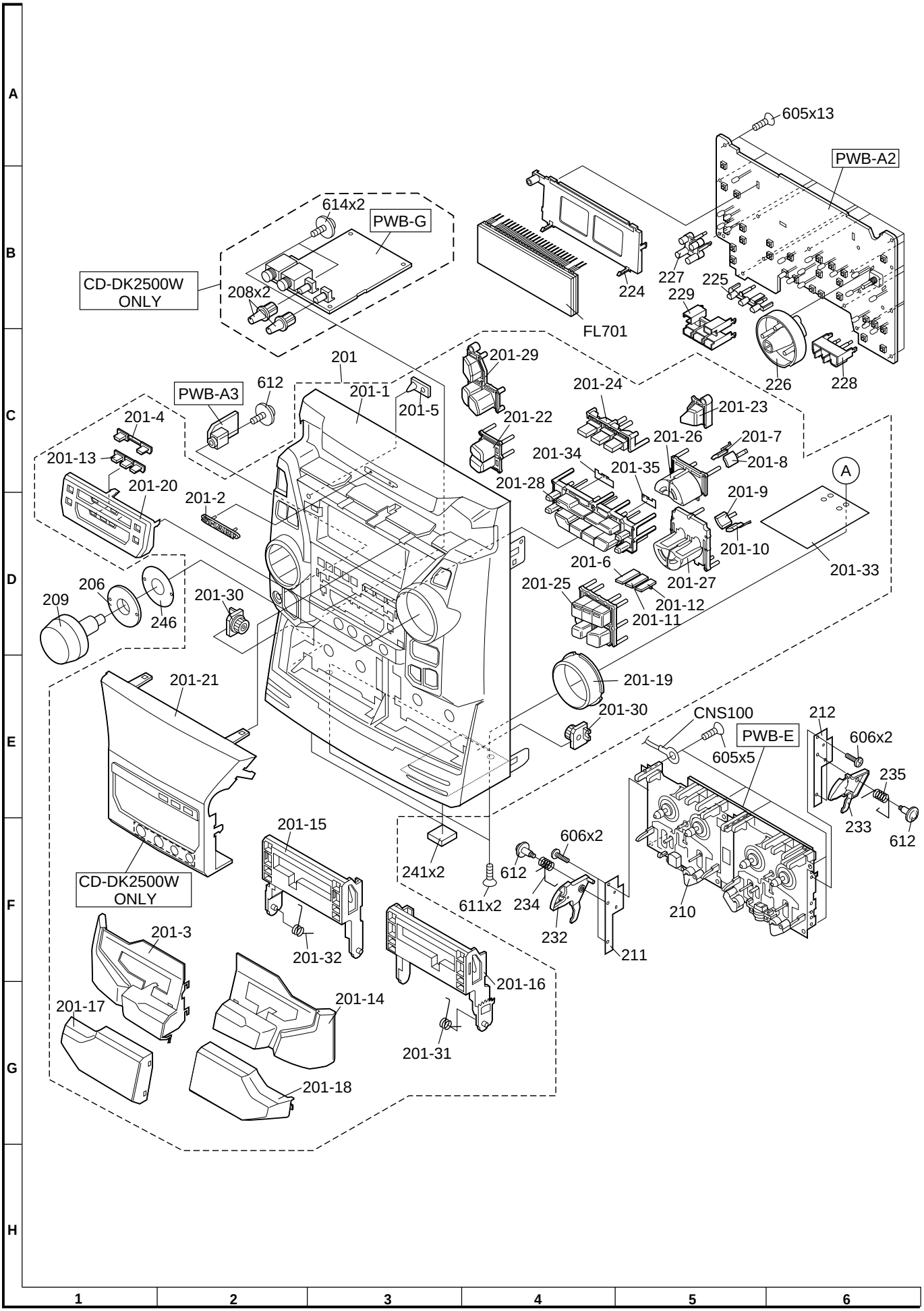


Figure 10 CABINET EXPLODED VIEW (1/3)

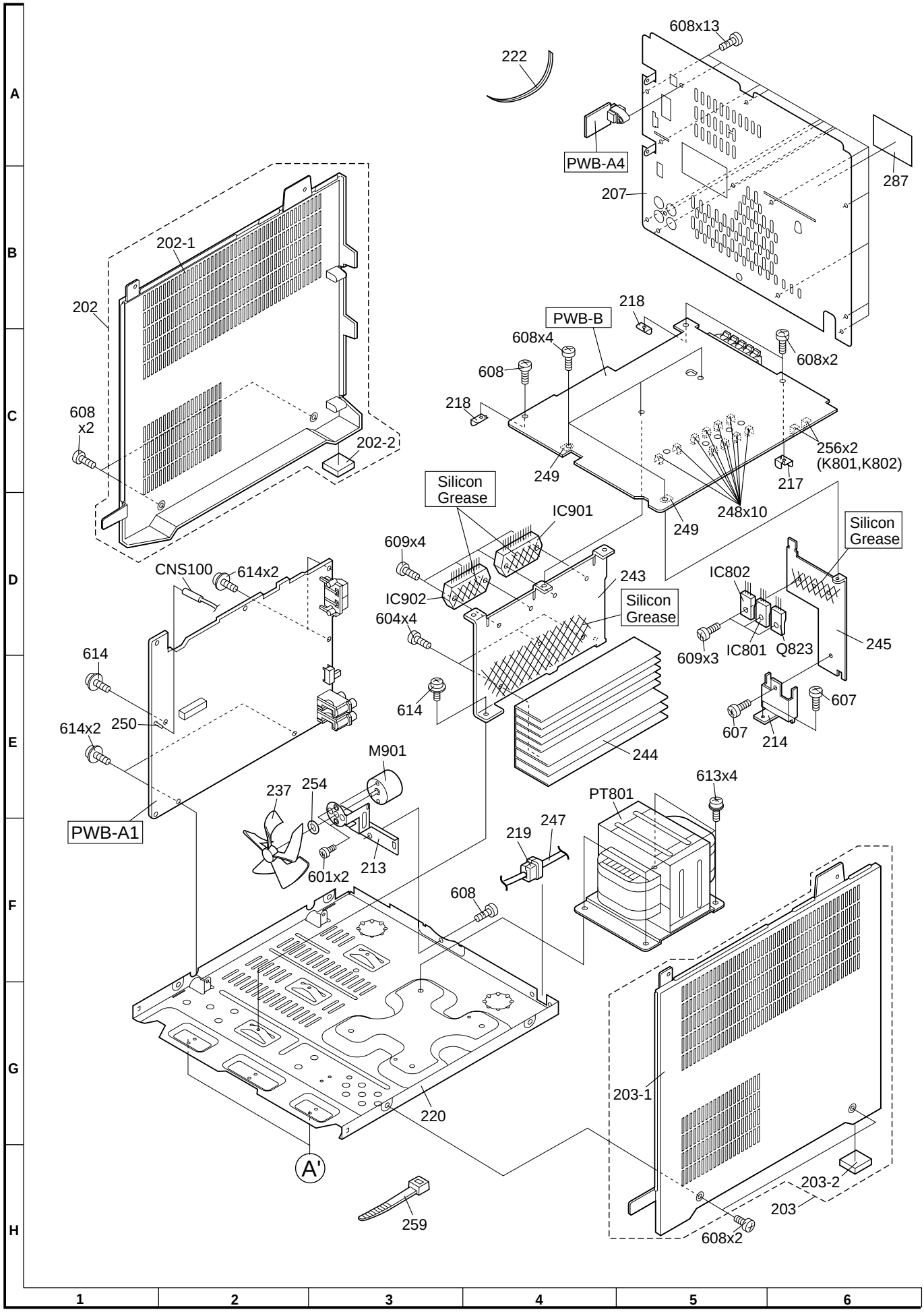


Figure 11 CABINET EXPLODED VIEW (2/3)

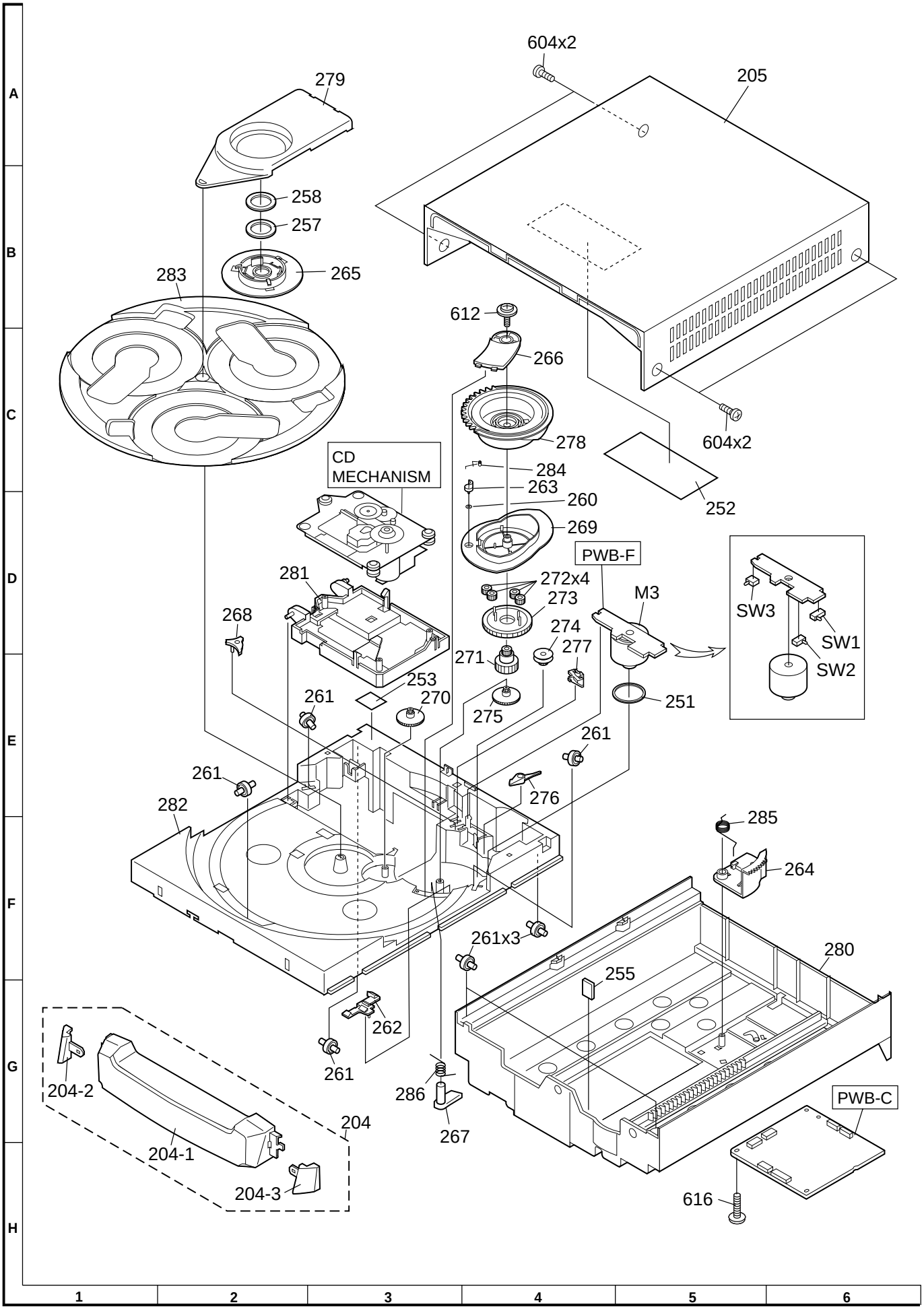


Figure 12 CABINET EXPLODED VIEW (3/3)

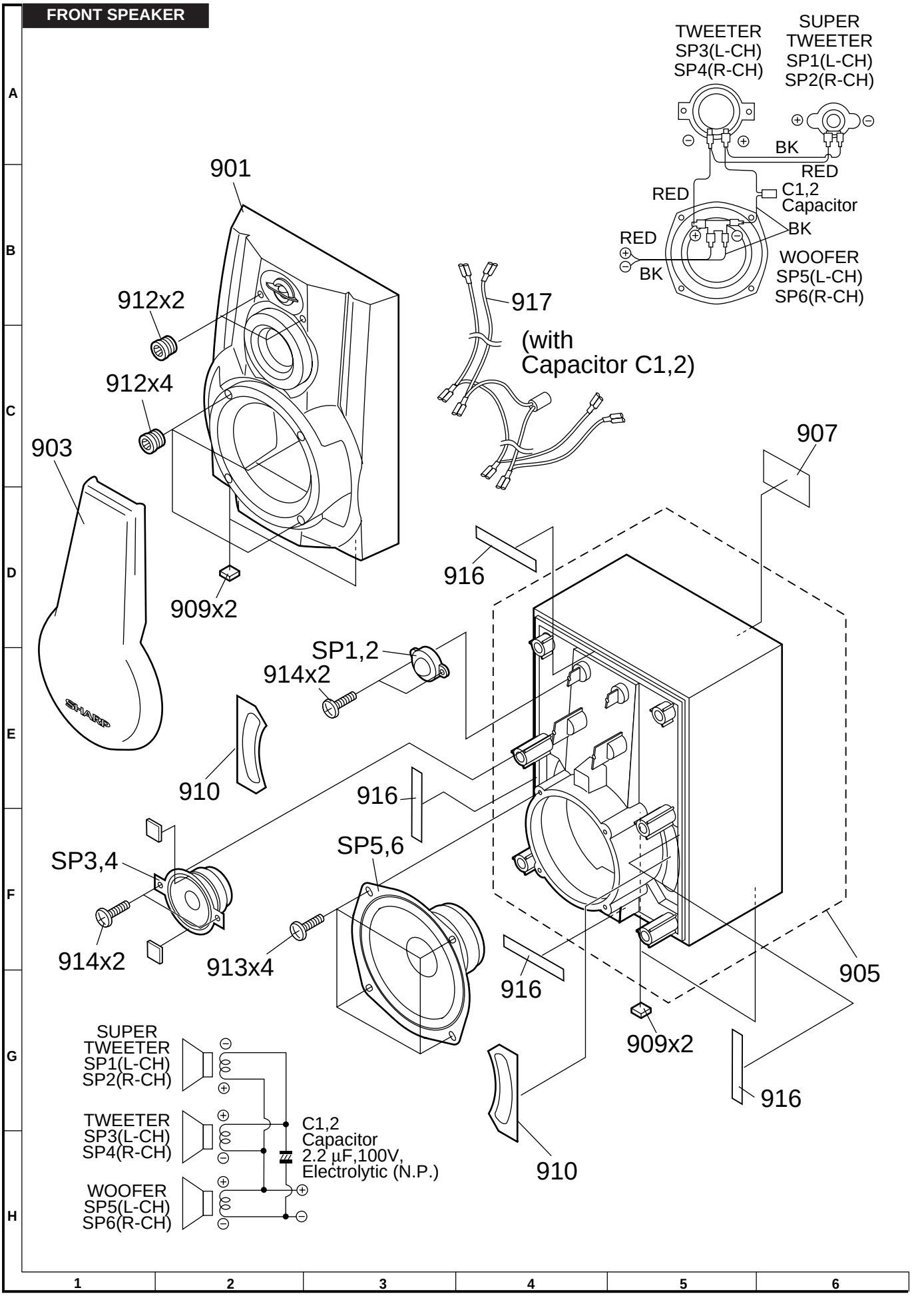


Figure 13 SPEAKER EXPLODED VIEW (1/2)

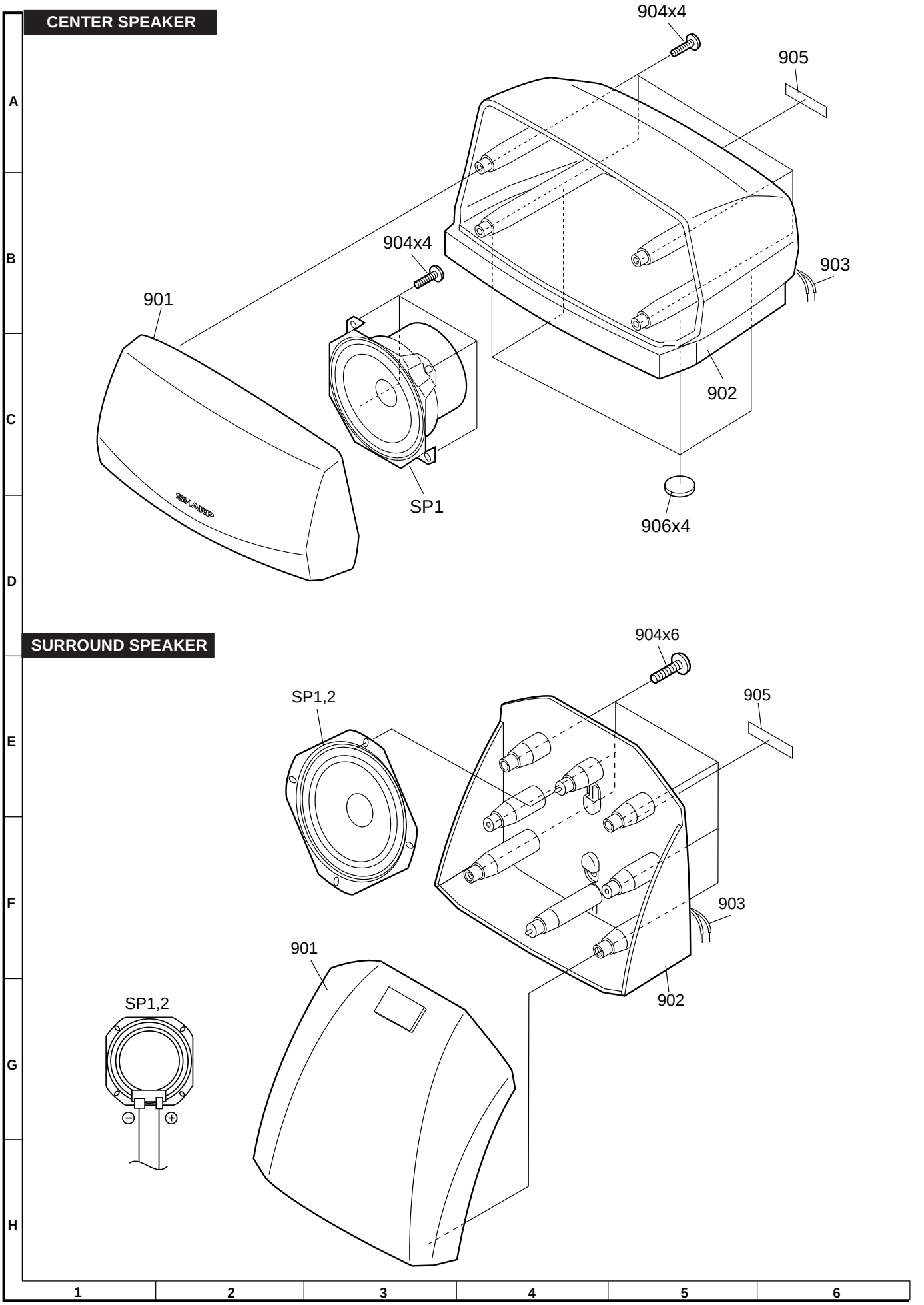


Figure 14 SPEAKER EXPLODED VIEW (2/2)

– MEMO –

– MEMO –

SHARP

COPYRIGHT © 2000 BY SHARP CORPORATION

ALL RIGHTS RESERVED.

No part of this publication may be reproduced,
stored in a retrieval system, or transmitted in
any form or by any means, electronic, mechanical,
photocopying, recording, or otherwise, without
prior written permission of the publisher.

SHARP CORPORATION
Communication Systems Group
Quality & Reliability Control Center
Higashihiroshima, Hiroshima 739-0192, Japan
Printed in Japan

A0004-714SS•HA•M

EX